PROJECT INFORMATION

ADDRESS:	15279 N. SCOTTSDALE RD., SCOTTSDALE, AZ 85254
PARCEL ID:	
ZONING CLASSIFICATION:	
CONSTRUCTION TYPE:	II-B
USE GROUP:	MERCANTILE
FIRE SUPPRESSION:	SPRINKLERED
NUMBER OF BUILDING:	1
NUMBER OF STORIES:	2
OCCUPANCY TYPE:	(M) MERCANTILE / (S-1) STORAGE 1

SCOPE OF WORK

TENANT IMPROVEMENT CONSISTING OF REMODEL OF EXISTING STORE IN AN EXISTING BUILDING. COMPLETE INTERIOR BUILD-OUT SCOPE INCLUDES DEMOLITION OF NON-STRUCTURAL PARTITIONS, CONSTRUCTION OF NEW PARTITIONS, NEW FIXTURES AND FINISHES, NEW LIGHTING AND ASSOCIATED ELECTRICAL WORK. FIRE ALARM AND FIRE SPRINKLER SYSTEMS ARE EXISTING TO REMAIN. ANY MODIFICATION REQUIRED FOR THE SPRINKLER SYSTEM WILL BE UNDER A SEPARATE PERMIT.

OCCUPANT LOAD

SPACE	SQ. FT.	FUNCTION	FACTOR	OCCUPANTS
SALES - FIRST	5,200 ft²	MERCANTILE	/60 = 86.67	87
SALES - SECOND	3,622 ft²	MERCANTILE	/60 = 60.37	61
STOCK - FIRST	1,287 ft²	STORAGE	/300 = 4.29	5
STOCK - SECOND	2,353 ft²	STORAGE	/300 = 7.84	8
MANAGER'S OFFICE	86 ft²	BUSINESS	/100 = .86	1
RR'S / MISC.	3,076 ft²	-	/0 = 0	
TOTAL	15,624 ft²	1		162

EXITING CALCULATIONS

REQUIRED EXITS

NUMBER OF EXITS	REQUIRED	PROVIDED
50-500 OCC.	2	3

MEANS OF EGRESS SIZING

DOORS AND OTHER EGRESS COMPONENT UNIT = 0.2 INCHES PER OCC.

EXIT WIDTH	REQUIRED	PROVIDED
162 X 0.20	32"	160"

EXIT ACCESS TRAVEL DISTANCE

TRAVEL DISTANCE	ALLOWED	ACTUAL
MAX. TRAVEL DISTANCE (WITH SPRINKLERS PER TABLE 1017.2)	FIRST FLOOR	
	250'-0"	191'-10"
	SECOND FLOOR	
	250'-0"	146'-5"

EXIT SEPARATION

MAX. DIAGONAL DISTANCE	REQUIRED	PROVIDED
(WITH SPRINKLERS) 134'-6" / 3 =	FIRST FLOOR	
	44'-10"	83'-9"
(WITH SPRINKLERS) 134'-6" / 3 =	SECOND FLOOR	
	44'-10"	45'-2"

PLUMBING REQUIREMENTS

FIXTURE	REQUIRED	PROVIDED
WATER CLOSET	1 PER 500 OCC. M/F	2 EXISTING
LAVATORY	1 PER 750 OCC. M/F	2 EXISTING
DRINKING FOUNTAIN	1 PER 1000 OCC.	1 HI-LO EXISTING
MOP SINK	1	1

DEFERRED SUBMITTALS

FIRE SPRINKLER MODIFICATIONS TO BE UNDER SEPARATE PERMIT.
FIRE ALARM SPRINKLER TO BE UNDER SEPARATE PERMIT.
INTERIOR & EXTERIOR SIGNAGE TO BE UNDER SEPARATE PERMIT.

APPLICABLE CODES

CODE AUTHORITIES	CITY OF SCOTTSDALE
BUILDING CODE:	IBC 2015
PLUMBING CODE:	IPC 2015
MECHANICAL CODE:	IMC 2015
ELECTRICAL CODE:	NEC 2014
ENERGY CODE:	IECC 2015
FIRE CODE:	IFC 2015
ACCESSIBILITY CODE:	2010 ADA STANDARDS

POTTERYBARN

SCOTTSDALE QUARTER

15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

SCOPE OF WORK SHOWN IN THIS SET IS BASED ON WORK LETTER VERSION:
EXHIBIT -
DATE: -
UPDATED: -



PROJECT TEAM DIRECTORY

CLIENT:
WILLIAMS-SONOMA, INC.
JIMMY CASTELLUCCI
777 DAVIS ST 94111
(415) 823-9553
JCASTELUCCI@WSGC.COM

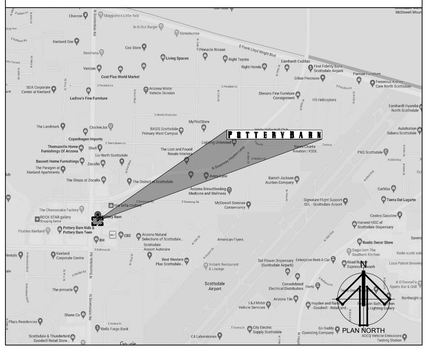
LANDLORD:
WASHINGTON PRIME GROUP
CHRIS DICARLO
180 EAST BROAD STREET
COLUMBUS, OH 43215
614.887.5755
CHRIS.DICARLO@WASHINGTONPRIME.COM

ARCHITECT:
ZEBRA PROJECTS, INC.
KELSEY AHUMADA
14614 N. KIERLAND BLVD. STE N300
SCOTTSDALE, AZ 85254
(480) 426-2803
KELSEY.AHUMADA@ZBR.CO.UK

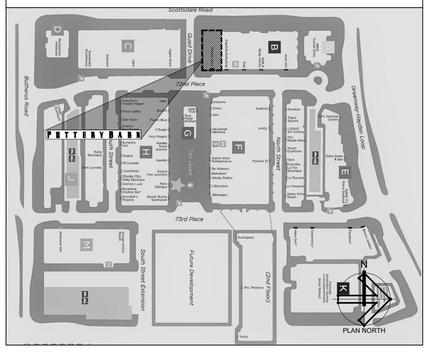
MEP ENGINEER:
EEA CONSULTING ENGINEERS
BRYAN WILKERSON
6615 VAUGHT RANCH RD. #100
AUSTIN, TX 78730
(512) 744-4464
BRYANWILKERSON@EEACE.COM

CONSTRUCTION MANAGER:
GPMG INC.
CONTACT: MOHAMED BAGOURY & OMAR ASHRY
PHONE: (289) 888-2354 & (289)400-0004
EMAIL: MBAGOURY@GPMG.CA
OMAR@GPMG.CA

VICINITY MAP



SITE MAP



SHEET INDEX

SHEET #	TITLE
GENERAL	
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G001	SYMBOLS & ABBREVIATIONS
G002	PROJECT NOTES
G003	RESPONSIBILITY MATRIX
ARCHITECTURAL	
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AF102	SECOND FLOOR FIXTURE PLAN
A001	PATH OF GOODS PLAN
A002	FIRST FLOOR EGRESS PLAN
A003	SECOND FLOOR EGRESS PLAN
A004	FIRST FLOOR EXISTING EGRESS PLAN
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A011	FIRST FLOOR EXISTING FIXTURE PLAN
A012	SECOND FLOOR EXISTING FIXTURE PLAN
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A031	FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN
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A213	INTERIOR ELEVATIONS
A214	INTERIOR ELEVATIONS
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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
COVER SHEET

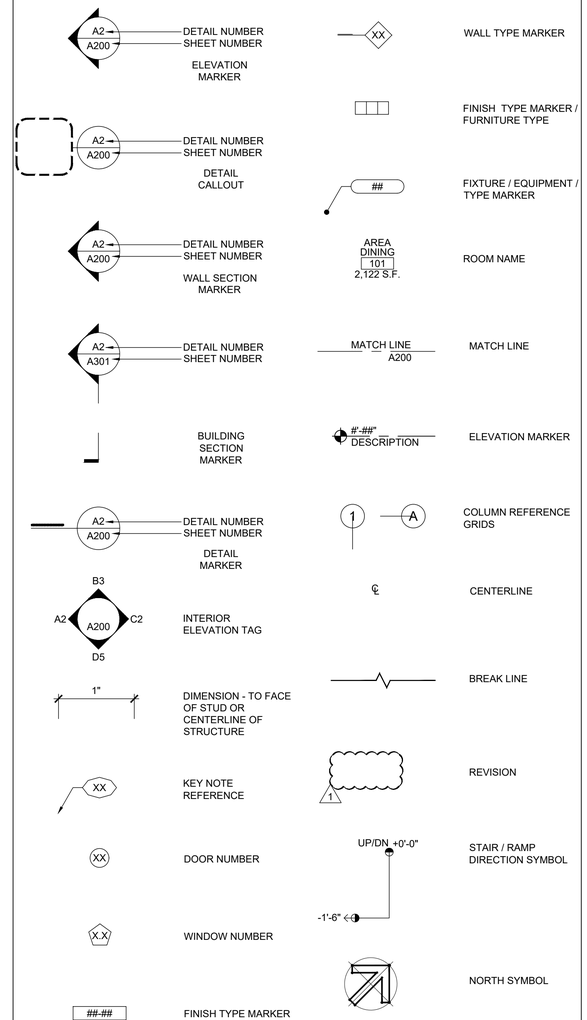
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
G000

STANDARD ABBREVIATIONS

@	AT				
A/C	AIR CONDITIONING	H.P.	HIGH POINT	SND	INS SOUND INSULATION
AB	ANCHOR BOLT	HC	HOLLOW CORE	SPEC	SPECIFICATION
ABV	ABOVE	HCWD	HOLLOW CORE WOOD DOOR	SPK	SPEAKER
ACT	ACOUSTICAL CEILING TILE	HDWD	HARDWOOD	SPL	SPECIAL
AD	AREA DRAIN	HDWR	HARDWARE	SQ	SQUARE
ADA	AMERICAN'S W/ DISABILITIES ACT	HM	HOLLOW METAL	SS	STAINLESS STEELOUP
		HMF	HOLLOW METAL FRAME	STD	STANDARD
ADJ	ADJACENT	HORIZ	HORIZONTAL	STG	SEATING
ADJT	ADJUSTABLE	HT	HEIGHT	STL	STEEL
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING,VENTILATION & COOLING	STN	STAIN
AGG	AGGREGATE			STO	STONE TILE
AL	ALUMINUM	HW	HOT WATER	SUSP	SUSPENDED
ALT	ALTERNATE			SYM	SYMMETRY, (ICAL)
ANC	ANCHOR, ANCHORAGE			SYS	SYSTEM
ANOD	ANODIZED	ID	INSIDE DIAMETER		
AP	ACCESS PANEL	IN	INCH		
ARCH	ARCHITECT, ARCHITECTURAL	INCL	INCLUDE, (ED), (ING)	T	TREAD
		INSUL	INSULATION	T&G	TONGUE & GROOVE
ASPH	ASPHALT	INT	INTERIOR	THK	THICKNESS
				THR	THRESHOLD
BD	BOARD	JC	JANITOR'S CLOSET	TO	TOP OF
BEL	BELOW	JF	JOINT FILLER	TOB	TOP OF BEAM
BL	BASE LINE	JT	JOINT	TOC	TOP OF CONCRETE
BLDG	BUILDING			TOJ	TOP OF JOIST
BLK	BLOCK			TOM	TOP OF MASONRY
BLKG	BLOCKING	KEC	KITCHEN EQUIPMENT	TOS	TOP OF SLAB
BM	BEAM		CONTRACTOR	TOS	TOP OF STEEL
BM	BENCH MARK	KIT	KITCHEN	TOW	TOP OF WALL
BO	BOTTOM OF	KPL	KICK PLATE	TPG	TOPPING
BPL	BEARING PLATE			TYP	TYPICAL
BRG	BEARING				
BRK	BRICK	L	LONG (LENGTH)	UC	UNDERCUT
BRKT	BRACKET	L.O.D.	LEASE OUTLINE DRAWING	UNF	UNFINISHED
BRS	BRASS			UNO	UNLESS NOTED OTHERWISE
BRZ	BRONZE	L.P.	LOW POINT		
BS	BOTH SIDES	L/T	LIGHT TRACK	UTL	UTILITY
BUR	BUILT UP ROOFING	LAM	LAMINATE		
		LAV	LAVATORY		
CB	CEMENTITIOUS BACKER BOARD	LBS	POUNDS	VCT	VINYL COMPOSITE TILE
		LF	LINEAR FOOT	VERT	VERTICAL
CEM	CEMENT	LGL	LAMINATED GLASS	VF	VINYL FABRIC
CG	CORNER GUARD	LH	LEFT-HANDED	VG	VERTICAL GRAIN
CL	CENTER LINE	LL	LANDLORD	VT	VINYL TILE
CLG	HT CEILING HEIGHT	LT	LIGHT		
CLG	CEILING	LTL	LINTEL		
CLR	CLEAR, CLEARANCE			W/	WITH
CMU	CONCRETE MASONRY UNIT	MAT	MATERIAL	W/O	WITHOUT
		MAX	MAXIMUM	WA	WALL ANCHOR
COL	COLUMN	MBR	MEMBER	WC	WATER CLOSET
CONC	CONCRETE	MDO	MEDIUM DENSITY OVERLAY	WD	WOOD
CONN	CONNECTION	MECH	MECHANICAL	WF	WIDE FLANGE
CONST	CONSTRUCTION	MFR	MANUFACTURER	WFAB	WALL FABRIC
CONT	CONTINUE, CONTINUOUS	MIN	MINIMUM	WH	WATER HEATER
CONTR	CONTRACT(OR)	MISC	MISCELLANEOUS	WIN	WINDOW
CORR	CORRUGATED	MR	MOISTURE RESISTANT GYP. BOARD	WP	WORKING POINT
CPT	CARPET			WRB	WATER RESISTIVE BARRIER
CSMT	CASEMENT	MOD	MODIFIED	WWF	WELDED WIRE FABRIC
CTR	COUNTER	MTD	MOUNTED		
		MTL	METAL		
DFE	DESIGN FLOOD ELEVATION	NAT	NATURAL		
DIA	DIAMETER	NIC	NOT IN CONTRACT		
DIAG	DIAGONAL	NO	NUMBER		
DIM	DIMENSION	NOM	NOMINAL		
DIV	DIVISION	NR	NOISE REDUCTION		
DN	DOWN	NTS	NOT TO SCALE		
DR	DOOR				
DS	DENS SHIELD				
DTL	DETAIL	OA	OVERALL		
DWG	DRAWING	OC	ON CENTER		
		OD	OUTSIDE DIAMETER		
(E)	EXISTING	OPP	OPPOSITE		
EA	EACH	ORD	OVERFLOW ROOF DRAIN		
EIFS	EXTERIOR INSULATION & FINISHING SYSTEM				
EL	ELEVATION	P	PAINT		
ELEC	ELECTRICAL	PT	PRESSURE TREATED		
ELEV	ELEVATOR	PBD	PARTICLE BOARD		
EMER	EMERGENCY	PERF	PERFORATE(D)		
EQ	EQUAL	PLAM	PLASTIC LAMINATE		
EQUIP	EQUIPMENT	PLBG	PLUMBING		
ETR	EXISTING TO REMAIN	PLT	PLATE		
EWC	ELECTRIC WATER COOLER	PLYWD	PLYWOOD		
EXH	EXHAUST	POS	POINT OF SALE		
EXT	EXTERIOR	PR	PAIR		
		PTD	PAINTED		
		PTN	PARTITION		
FA	FIRE ALARM	PVC	POLYVINYL CHLORIDE		
FD	FLOOR DRAIN	QT	QUARRY TILE		
FE	FIRE EXTINGUISHER				
FEC	FIRE EXTINGUISHER CABINET	R	RISER		
FF EL	FINISH FLOOR ELEVATION	RAD	RADIUS		
FF	FINISH FLOOR	RB	RUBBER BASE		
FIN	FINISH	RD	ROOF DRAIN		
FIXT	FIXTURE	REC	RECESSED		
FLR	FLOOR	REF	REFERENCE		
FLUOR	FLUORESCENT	REQD	REQUIRED		
FOC	FACE OF CONCRETE	RESIL	RESILIENT		
FOF	FACE OF FINISH	REV	REVISION		
FOS	FACE OF STUD	RH	RIGHT HAND		
FRT	FIRE RETARDANT TREATED	RM	ROOM		
FT	FOOT (FEET)	RO	ROUGH OPENING		
FTG	FOOTING	ROW	RIGHT OF WAY		
FV	FIELD VERIFY				
GA	GAGE, GAUGE	SC	SOLID CORE		
GALV	GALVANIZED	SCHED	SCHEDULE		
GC	GENERAL CONTRACTOR	SCN	SCREEN		
GCMU	GLAZED CONCRETE MASONRY	SD	SMOKE DETECTOR		
		SECT	SECTION		
GD	GRADE, GRADING	SF	SQUARE FOOT (FEET)		
GL	GLASS, GLAZING	SHT	SHEET		
GLAM	GLUED LAMINATE	SIM	SIMILAR		
GB	GYPSUM BOARD	SIPS	STRUCTURAL INSULATED PANEL		
GYP	GYPSUM				

SYMBOLS LEGEND



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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
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FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
SYMBOLS & ABBREVIATIONS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
G001

BID ALTERNATES

1. RECESSED MULTIPLES TO REMAIN
2. NEW STONE BACKWRAP TOP
3. NEW FLOOR BOX AT 2ND FLOOR SALES
4. SOLAR FILM ON STOREFRONT WINDOWS WHERE AWNINGS ARE BEING REMOVED.

FIRE DEPARTMENT NOTES

1. SUBMIT SHOP DRAWINGS FOR ANY MODIFICATION OF EXISTING FIRE SPRINKLER SYSTEM AND COMPLY W/ NFPA 13 & LOCAL AMENDMENTS. IN LIGHT HAZARD OCCUPANCIES, EXISTING STANDARD RESPONSE SPRINKLER HEADS WITHIN TENANT SPACE SHALL BE CHANGE OUT TO QUICK RESPONSE WHEN SCOPE OF WORK WILL ADD AND/OR RELOCATE 50% OR MORE OF SPRINKLER HEADS.
2. ALL FIRE PROTECTIONS SYSTEMS SHALL REMAIN OPERATIONAL AND MODIFIED AS NECESSARY FOR CODE COMPLIANCE.
3. INSTALL FIRE EXTINGUISHERS PER IFC. FIRE EXTINGUISHER QUANTITY & LOCATION(S) SHALL BE APPROVED BY FIRE INSPECTOR.
4. EXIT & EMERGENCY LIGHTING SHALL COMPLY WITH CITY ORDINANCE & IFC.
5. NUMERICAL PREMISES ID MUST BE LEGIBLE FROM STREET OR DRIVE. MINIMUM 12' NUMBERS FOR BUILDING AND 4" NUMBERS FOR SUITE.
6. SUBMIT SHOP DRAWINGS FOR ANY MODIFICATION OF FIRE ALARM SYSTEM (IF EXISTING) TO COMPLY WITH NFPA 72 & LOCAL CODES.
7. NEW TYPE I HOOD SYSTEMS REQUIRE SUBMITTAL OF PLAN FOR AUTOMATIC HOOD EXTINGUISHING SYSTEMS IN COMPLIANCE WITH CURRENT U.L. 300 STDS. EXISTING TYPE I HOOD SYSTEMS SHALL BE UPGRADED TO COMPLY WITH CURRENT U.L. 300 STANDARDS.
8. WAREHOUSE RACKS FOR STORAGE OVER 12' IN HEIGHT REQUIRE A SEPARATE SUBMITTAL FOR APPROVAL PRIOR TO INSTALLATION.
9. SEPARATE SUBMITTAL & APPROVAL IS REQUIRED FOR MAG LOCKS.
10. COMPRESSED GAS STORAGE (CO_2) REQUIRES SEPARATE FIRE DEPARTMENT PERMIT.

LANDLORD NOTES

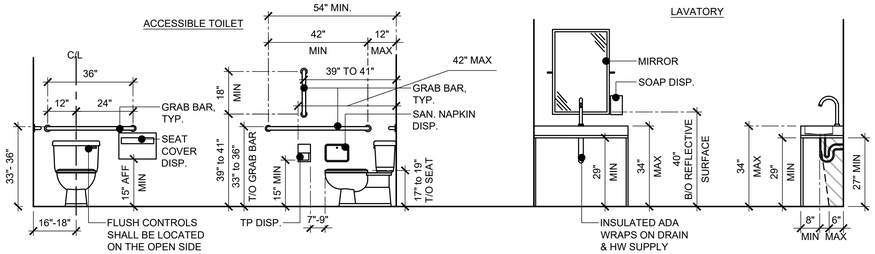
1. LANDLORD DOES NOT GUARANTEE ANY REPRESENTATION OR DIMENSIONS SHOWN ON THESE DRAWINGS
2. TENANT HAS OR WILL HAVE THE PREMISES SURVEYED TO ASSURE ACCURACY WITH THE DIMENSIONS PER THE LEASE
3. TENANT TO CLARIFY REQUIREMENTS WITH REGARD TO SPRINKLER WORK
4. THE TENANT'S GENERAL CONTRACTOR IS REQUIRED TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE MALL OPERATIONS DIRECTOR TO REVIEW LANDLORD AND MALL SPECIFIC REQUIREMENTS.
5. TENANT'S GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH EXISTING MALL TENANTS IN WHICH WORK WILL AFFECT THEIR PREMISES. THE MALL OPERATIONS DIRECTOR SHOULD BE NOTIFIED OF ALL AGREEMENTS AND CORRESPONDENCES.
6. TENANT'S GENERAL CONTRACTOR SHALL COORDINATE WITH THE MALL OPERATIONS DIRECTOR ON ANY DISCONNECTION OF EQUIPMENT THAT MAY DISRUPT BUILDING OPERATIONS TWO WEEKS PRIOR IN ORDER TO MAKE ACCOMMODATING ARRANGEMENTS.
7. TENANTS MUST SUBMIT A COLOR RENDERING OF THE PROPOSED STOREFRONT INCLUSIVE OF ALL FIXTURES THAT WILL BE PLACED IN THE STOREFRONT.
8. ALL ROOF WORK NEEDS TO BE PERFORMED BY LANDLORD'S REQUIRED ROOFING CONTRACTOR AT TENANT'S EXPENSE.
9. SUBMIT SIGN COMPANY SHOP DRAWINGS AND MENU BOARD (IF APPLICABLE) FOR LANDLORD REVIEW AND APPROVAL PRIOR TO THE ERECTION OF ANY TENANT SIGNAGE.
10. TENANT SHALL SUBMIT A DRAWING OF THE BARRICADE GRAPHIC TO THE LANDLORD FOR REVIEW AND APPROVAL
11. TENANT TO INDICATE ALL ITEMS ON THE FLOOR PLANS SUCH AS CASH WRAPS AND OTHER CASEWORK.
12. PROVIDE COPIES OF ALL PERMITS TO MALL MANAGEMENT.

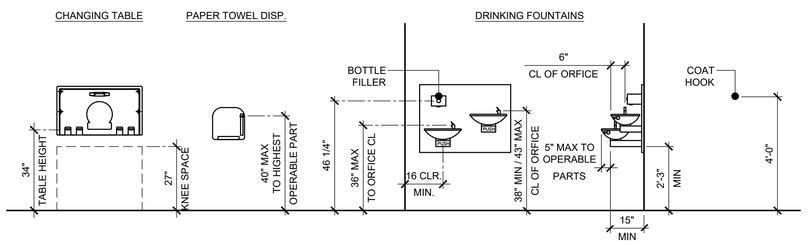
GENERAL NOTES

1. THIS DRAWING IS PART OF A COORDINATED SET OF DOCUMENTS. DO NOT SEPARATE BOUND SETS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. DRAWINGS AND DIMENSIONS OF THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM LANDLORD PROVIDED DOCUMENTS. BE ALERT TO DIMENSIONAL DISCREPANCIES, STRUCTURAL SUPPORTS AND OTHER ELEMENTS CONCEALED IN WALLS, NOT SHOWN. REPORT DISCREPANCIES PRIOR TO PROCEEDING.
3. IN THE EVENT OF INCONSISTENCIES BETWEEN ARCHITECTURAL AND CONSULTANT BASE PLANS THE ARCHITECTURAL SHEET SHALL TAKE PRECEDENCE. REPORT DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
4. VISIT SITE. VERIFY EXISTING STRUCTURE AND SITE CONDITIONS PRIOR TO SUBMITTING BIDS
5. AREAS, CALCULATIONS AND TALLIES INDICATED ARE FOR THE CONVENIENCE OF THE OWNER AND THE LOCAL APPROVAL AGENCIES. THEY ARE NOT TO BE USED FOR BID TAKEOFFS, ESTIMATES, CONSTRUCTION OR ANY OTHER PURPOSE.
6. DO NOT SCALE DRAWINGS FOR CONSTRUCTION DIMENSIONS OR TOLERANCES. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. REQUEST CLARIFICATION IN WRITING PRIOR TO PROCEEDING.
7. COORDINATE DIMENSIONS ON PLANS AND VERIFY ALL DIMENSIONS BY MEASUREMENTS TAKEN AT THE JOB SITE. TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND OR PERFORM THE WORK PROPERLY. REPORT DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
8. DIMENSIONS ARE TO STRUCTURAL GRID OR FACE OF FINISH UNLESS NOTED OTHERWISE.
9. UNLESS NOTED, CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SO AS TO BE SUITABLE FOR ITS INTENDED USE, AND IN CONFORMANCE WITH ALL APPLICABLE CODES, ORDINANCES AND OTHER REGULATIONS.
10. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION FOR RESOLUTION.
11. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ARE CONTAINED IN AIA A104-2017 ABBREVIATED STANDARD FORM OF AGREEMENT BETWEEN THE OWNER AND CONTRACTOR, AND ARE A PART OF THESE DOCUMENTS. THE CONTRACTOR SHALL READ AND BE GOVERNED BY THEM. COPIES ARE AVAILABLE ONLINE AND AT THE ARCHITECT'S OFFICE.
12. HORIZONTAL DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
13. VERTICAL DIMENSIONS ARE FROM THE TOP OF FLOOR FINISH, ESTABLISHED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE TENANT OR ARCHITECT, UNLESS OTHERWISE NOTED.
14. DIMENSIONS ARE NOT TO BE MODIFIED WITHOUT THE APPROVAL OF THE TENANT PROJECT MANAGER OR THE ARCHITECT UNLESS NOTED +/-
15. DIMENSIONS SHOWN AS "V.I.F." SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD BY LAYING OUT THE PARTITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS PRIOR TO PROCEEDING WITH WORK.
16. DIMENSIONS SHOWN AS "CLEAR" OR "HOLD" SHALL BE MAINTAINED AND ALLOW FOR THICKNESS OF FINISHES; INCLUDING FLOOR FINISHES. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS PRIOR TO PROCEEDING WITH WORK.
17. DOORS AND CASED OPENINGS INDICATED NEARBY WALL INTERSECTIONS SHALL BE LOCATED SO THAT THE EDGE OF THE FINISH OPENING IS SIX INCHES FROM THE FACE OF THE NEARBY WALL UNLESS OTHERWISE INDICATED. ALL OTHER DOORS AND CASED OPENINGS SHALL BE CENTERED BETWEEN ADJACENT WALL INTERSECTIONS.
18. VERTICAL ELEVATIONS REFERENCED ARE ABOVE FINISH FLOOR FOR EACH ROOM THROUGHOUT TENANT SPACE, UNLESS NOTED OTHERWISE. FINISH FLOOR ELEVATIONS MAY VARY FROM ROOM TO ROOM DEPENDING ON FLOOR FINISHES.
19. THROUGHOUT THIS SET OF DRAWINGS THE TERM "OWNER" REFERS TO THE CLIENT/TENANT. THE TERM "LANDLORD" REFERS TO THE PROPERTY OWNER. THE TERM "PROJECT PM" REFERS TO THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION.
20. COORDINATE ALL WORK AFFECTING THE EXTERIOR OR BUILDING SYSTEM WITH OWNERS AGENT.
21. ALL WORK SHALL COMPLY WITH THE APPLICABLE CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC. THAT ARE REQUIRED BY PUBLIC AUTHORITIES. IN THE EVENT OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY. REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO THE CURRENT APPLICABLE EDITIONS OR PUBLICATIONS.
22. THIS SET OF DOCUMENTS IS NOT ALL INCLUSIVE AND IS MEANT TO SHOW THE INTENT OF THE SCOPE OF WORK. THE CONTRACTOR SHALL BID ALL WORK INVOLVED WITH A NORMALLY ANTICIPATED SCOPE OF WORK.
23. SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SYMBOLS & ABBREVIATIONS USED, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
24. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN (CONFIRM THESE FIELD CONDITIONS PRIOR TO SUBMITTING BID PROPOSAL). ANY CONFLICTS OR OMISSIONS, ETC., SHALL BE IMMEDIATELY REPORTED TO THE OWNER'S PROJECT MANAGER & ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION.
25. GENERAL CONTRACTOR IS RESPONSIBLE FOR PAYING FOR AND PROCURING ALL BUILDING PERMITS (INCLUDING SUBCONTRACTORS, HVAC, ELECTRICAL, PLUMBING, ETC.), AND ALL LICENSING FEES THAT MAY BE REQUIRED BY THE LOCAL JURISDICTION.
26. CONTRACTOR SHALL PERSONALLY SUPERVISE AND DIRECT ALL WORK. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION AND INSTALLATION METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND FOR COORDINATION OF ALL REQUIRED WORK.
27. DO NOT SUBSTITUTE, REVISE, OR CHANGE THE WORK WITHOUT THE WRITTEN CONSENT OF THE TENANT PROJECT MANAGER.
28. "TYP" SHOULD MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT. UNLESS OTHERWISE NOTED, DETAILS ARE USUALLY KEYED AND NOTED "TYP." ONLY ONCE WHEN THEY FIRST OCCUR.
29. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE CONDITIONED, USED APPLIED, INSTALLED, CONNECTED, ERECTED, AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS OR INSTRUCTIONS.
30. MATERIALS USED IN THIS SPACE MUST BE FREE OF ASBESTOS AND ANY OTHER KNOWN HAZARDOUS MATERIALS.
31. COORDINATE ALL WORK AS REQUIRED WITH THE LANDLORD'S REPRESENTATIVE(IF APPLICABLE) INCLUDING COMPLIANCE WITH "WORKING RULES", LOCAL NOISE ORDINANCES, THE USE OF ELEVATORS, TEMPORARY STORAGE, LOADING DOCKS, BUILDING KEYING SYSTEMS, ETC. PROVIDE NECESSARY BARRICADES, DUST PROOF BARRICADE LIGHTING, SIGNAGE, AND GUARDRAILS AS REQUIRED BY OWNER AND/OR APPLICABLE REGULATORY ADVISORY FOR THE PROTECTION OF BUILDING OCCUPANTS, WORKERS AND PEDESTRIANS.
32. COORDINATE WITH OWNER AND BUILDING MANAGER BEFORE BEGINNING ANY WORK THAT COULD AFFECT THE BUILDING'S FIRE ALARM SYSTEM, SMOKE, EVACUATION OR FIRE SPRINKLER SYSTEM (S).
33. DURING ALL PHASES OF WORK, DO NOT DISTURB THE DELIVERIES AND FUNCTIONS OF ADJACENT AND NEIGHBORING TENANTS AND PROPERTY OWNERS.
34. GENERAL CONTRACTOR SHALL, IN THE WORK OF ALL TRADES, PERFORM AND ALL CUTTING, PATCHING, RESTORING, REPAIRING, AND THE LIKE NECESSARY TO COMPLETE THE WORK AND RESTORE ANY DAMAGED SURFACES RESULTING FROM THE WORK TO THEIR ORIGINAL CONDITION. ALL ROOF PATCHING SHALL RETURN AREA TO "LIKE NEW" CONDITION. PRIOR TO BIDDING, G.C. TO VERIFY ANY ROOF WARRANTIES WITH LANDLORD/OWNER AND INCLUDE IN CONTRACT.
35. DO NOT CORE DRILL, SLEEVE OR CUT STEEL MEMBERS OR ALTER ANY EXISTING BUILDING FRAMING MEMBER WITHOUT OWNER APPROVAL. X-RAYS AND/OR STRUCTURAL ANALYSIS AND DESIGN IS REQUIRED AT CONTRACTOR'S COST. COORDINATE WITH OWNER PRIOR TO BEGINNING WORK. CORE DRILLING IS THE RESPONSIBILITY OF THE CONTRACTOR NEEDING THE HOLE
36. PATCH AND REPAIR ALL FIREPROOFING DAMAGED OR REMOVED DURING THE PERFORMANCE OF THE WORK.
37. EACH CONTRACTOR SHALL LEAVE THE SITE IN A NEAT, CLEAN AND ORDERLY CONDITION UPON THE COMPLETION OF THEIR WORK ON A DAILY BASIS. ALL WASTE, RUBBISH, AND EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE PROMPTLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FROM REMOVAL AND DISPOSAL OF ALL TRASH , INCLUDING OWNER-FURNISH ITEMS AND TRASH GENERATED BY OWNER'S CONTRACTORS FOR THE DURATION FOR THE PROJECT.
38. EACH CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A/10BC WITHIN 75' TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING DURING CONSTRUCTION.
39. COORDINATE AND PROVIDE APPROPRIATE STRUCTURAL BLOCKING/BACKING AND REINFORCING IN PARTITIONS BEHIND ALL WALL-MOUNTED ITEMS, INCLUDING WALL HUNG OWNER PROVIDED ITEMS OR FURNITURE N.I.C. COORDINATE WITH OWNER AND PLANS.
40. ALL FINISHED WORK SHALL BE FIRM, WELL ANCHORED, IN TRUE ALIGNMENT, PLUMB, LEVEL, WITH SMOOTH, CLEAN, UNIFORM APPEARANCE WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS OR DISCOLORATION. JOINTINGS SHALL BE TIGHT FITTING, NEAT, AND WELL SCRIBED. THE FINISH WORK SHALL NOTE HAVE EXPOSED UNSIGHTLY ANCHORS OR FASTENERS AND SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION AND SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING AND WARPING DUE TO TEMPERATURE AND HUMIDITY CONDITION.
41. ATTACHMENTS, CONNECTIONS OR FASTENINGS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY SECURED IN CONFORMANCE WITH BEST PRACTICES AND THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THEM ACCORDING TO THESE CONDITIONS. THE DRAWINGS SHOW ONLY SPECIAL CONDITIONS TO ASSIST THE CONTRACTOR. THEY DO NOT ILLUSTRATE EVERY SUCH CONDITION AND DETAIL.
42. WHEN THE CONTRACTOR ACCEPTS DELIVERY OF ALL ITEMS NOTED ON PLANS WHETHER IN CONTRACT OR NOT IN CONTRACT, HE SHALL BE RESPONSIBLE FOR LOSS AND/OR DAMAGE TO THESE ITEMS.
43. SERVICE AREA EQUIPMENT INSTALLATION AND ALL RELATED INSTALLATION REQUIREMENTS ARE THE EXCLUSIVE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER/INSTALLER. SERVICE AREA EQUIPMENT LOCATIONS ARE SHOWN IN THESE DRAWINGS FOR REFERENCE ONLY. EQUIPMENT SUPPLIER TO BECOME FAMILIAR WITH SITE CONDITIONS PRIOR TO INSTALL AND PROVIDE INSTALL INSTRUCTION, DETAIL & SUPPORT ACCORDINGLY.
44. SHOP DRAWINGS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO PROCEEDING WITH WORK.

DEFINITIONS

- APPROVED
  AS ACCEPTED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE
- APPROVED EQUIVALENT
  AS ACCEPTED BY THE ARCHITECT AS BEING OF EQUIVALENT QUALITY, UTILITY, AND APPEARANCE.
- AS-BUILT DRAWINGS
  THE TERM AS-BUILT DRAWINGS SHALL MEAN RECORD DRAWINGS AS DEFINED HEREIN.
- BID DRAWINGS
  BID DRAWINGS ARE PRELIMINARY DRAWINGS ISSUED TO THE CONTRACTOR FOR ESTABLISHING THE COST OF THE PROJECT AS DESIGNED AT THE DESIGNATED TIME OF BID.
- DIRECTED
  AS INSTRUCTED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE
- "FOR CONSTRUCTION" DRAWINGS
  "FOR CONSTRUCTION" DRAWINGS (IFC) ARE DRAWINGS ISSUED TO THE CONTRACTOR FOR CONSTRUCTION OF THE PROJECT WHICH INCORPORATE INFORMATION ADDED TO THE PERMIT DRAWINGS BY THE BUILDING DEPARTMENT AS WELL AS ANY REVISIONS MADE AFTER THE DESIGNATED TIME OF BID.
- FURNISH
  SUPPLY ONLY - DO NOT INSTALL.
- INDICATED
  AS SHOWN AND/OR NOTED ON THE DRAWINGS.
- INSTALL
  INSTALL OR APPLY ONLY - DO NOT FURNISH.
- OWNER-FURNISHED, CONTRACTOR-INSTALLED (OFCI):
  THE OWNER WILL FURNISH AT ITS COST AND THE CONTRACTOR WILL INSTALL UNDER ITS CONTRACT FOR THIS WORK. SEE RESPONSIBILITY SCHEDULE
- OWNER-FURNISHED, OWNER INSTALLED (OFOI):
  WORK ON THIS PROJECT THAT WILL BE PERFORMED BY THE OWNER OR ITS AGENTS, AT THE OWNER'S COST. SEE RESPONSIBILITY SCHEDULE
- PERMIT DRAWINGS
  PERMIT DRAWINGS ARE THE SET OF DRAWINGS REVIEWED AND APPROVED FOR CONSTRUCTION BY THE LOCAL BUILDING OFFICIAL FOR USE IN CONJUNCTION WITH ITS ISSUANCE OF THE BUILDING PERMIT.
- PRELIMINARY DRAWINGS
  PRELIMINARY DRAWINGS ARE ALL DRAWINGS NOT SPECIFICALLY LABELED AS "FOR CONSTRUCTION DRAWINGS" OR "RECORD DRAWINGS." PRELIMINARY DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION OF THE PROJECT.
- PROVIDE
  FURNISH AND INSTALL.
- RECORD DOCUMENTS
  RECORD DOCUMENTS ARE COPIES OF THE "FOR CONSTRUCTION DOCUMENTS," MAINTAINED BY THE CONTRACTOR AT THE SITE IN GOOD ORDER AND MARKED CURRENTLY TO RECORD FIELD CHANGES AND SELECTIONS MADE DURING CONSTRUCTION OF THE PROJECT. RECORD DOCUMENTS INCLUDE THE RECORD DRAWINGS, SPECIFICATIONS, ADDENDA, CHANGE ORDERS, AND OTHER MODIFICATIONS AS WELL AS SHOP DRAWINGS , PRODUCT DATA SAMPLES, AND SIMILAR REQUIRED SUBMITTALS.
- RECORD DRAWINGS
  RECORD DRAWINGS ARE A COPY OF THE "FOR CONSTRUCTION DRAWINGS" MAINTAINED AT THE SITE BY THE CONTRACTOR; MARKED TO CURRENTLY RECORD FIELD CHANGES MADE DURING THE CONSTRUCTION AND CERTIFIED BY THE CONTRACTOR AS ACCURATE UPON COMPLETION OF THE WORK.
- SUPPLEMENTAL DRAWINGS
  SUPPLEMENTAL DRAWINGS ARE DRAWINGS IN THE THE FORM OF SKETCHES, DETAILS OR SHEETS, ISSUED DURING THE COURSE OF CONSTRUCTION, WHICH CLARIFY OR AMEND THE "FOR CONSTRUCTION" DRAWINGS.





1 FIXTURE MOUNTING HEIGHTS - FOR REFERENCE ONLY

SCALE: 3/8" = 1'-0"

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.: 651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO.
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME: PROJECT NOTES

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: G002

SUBMITTAL SCHEDULE

STATUS	ITEM	SPEC	REQUIRED APPROVALS			
			GC	ENG	ARCH	WSI
PHYSICAL SAMPLES		**SIMULTANEOUSLY SEND (3) COPIES TO WSI + (1) COPY TO ARCHITECT**				
STOREFRONT						
	~~STOREFRONT SYSTEM MOCK-UP~~	~~PHYSICAL MOCK-UP~~				
	~~GLAZING~~	~~FINISH SAMPLE~~				
	~~METAL COPING~~	~~FINISH SAMPLE~~				
	~~WOOD SIDING AND TRIM~~	~~FINISH SAMPLE~~				
	~~STOREFRONT BASE~~	~~FINISH SAMPLE~~				
	~~WINDOW FILM~~	~~FINISH SAMPLE~~				
	~~METAL / GLASS CANOPY~~	~~PHYSICAL MOCK-UP~~				
	STOREFRONT FACADE PAINT	DRAWDOWN			X	X
	AWNING FABRIC	FINISH SAMPLE			X	X
	STOREFRONT SYSTEM PAINT	DRAWDOWN PAINT ON METAL NOT ON A PIECE OF PAPER			X	X
FINISHES						
	~~RESTROOM WALL TILE & COVE BASE~~	~~FINISH SAMPLE~~				
	~~RESTROOM FLOOR TILE + GROUT~~	~~FINISH SAMPLE~~				
	SALES FLOOR WOOD	FINISH SAMPLE FOR F-1 AND F-2			X	X
	~~SALES FLOOR CONCRETE TILE~~	~~FINISH SAMPLE~~				
	~~CONCRETE SALES FLOOR GRIND AND SEALANT~~	~~3 MOCK-UPS REQUIRED. ARCHITECT TO PROVIDE SPECS BASED ON SLAB CONDITION~~				
	~~ENTRY WALK-OFF MAT~~	~~FINISH SAMPLE~~			X	X
	~~MANAGER'S OFFICE CARPET~~	~~FINISH SAMPLE~~				
	INTERIOR PAINT	DRAWDOWN FOR EACH SPECIFICATION			X	X
	13 - STEP PAINT PROCESS FOR EXISTING & RELOCATED FIXTURE BAYS	PHYSICAL MOCK-UP OF SHELF/FINISH SAMPLE			X	X
SHOP DRAWING & SPECS		**EMAIL TO ARCHITECT**				
STOREFRONT						
	~~STOREFRONT SYSTEM~~	~~SHOP DRAWINGS TO BE ENGINEERED PER SECTION 084000~~				
	~~METAL / GLASS CANOPY~~	~~SHOP DRAWINGS~~				
	~~FABRIC AWNING FRAME~~	~~SHOP DRAWINGS~~				
	~~STOREFRONT BASE~~	~~SHOP DRAWINGS~~				
	~~ENTRY DOORS AND HARDWARE~~	~~PRODUCT DATA~~				
	ASHLEY NORTON DOOR PULLS 1390.18	PRODUCT DATA			X	X
MISC						
	DOORS AND HARDWARE	PRODUCT DATA	X		X	
MEP						
	HVAC EQUIPMENT	SHOP DRAWINGS		X	X	
	HVAC GRILLES	PRODUCT DATA		X	X	
	~~ELECTRICAL SWITCH GEAR~~	~~PRODUCT DATA~~				
	~~ELECTRICAL PANELS~~	~~PRODUCT DATA~~				
	~~EXTERIOR J-BOXES~~	~~PRODUCT DATA~~				
	FLOOR BOXES	PRODUCT DATA		X	X	
	~~RESTROOM EXHAUST FANS~~	~~PRODUCT DATA~~				
	~~FIRE SPRINKLER~~	~~SHOP DRAWINGS~~				
	~~FIRE ALARM / LIFE SAFETY~~	~~SHOP DRAWINGS~~				
	~~PLUMBING ACCESSORIES~~	~~PRODUCT DATA~~				
	PLUMBING FIXTURES	PRODUCT DATA		X	X	
	LIGHT FIXTURES	PRODUCT DATA		X	X	
	~~LIGHTING SUSPENSION SYSTEM~~	~~SHOP DRAWINGS + PRODUCT DATA~~				
VENDOR RESPONSIBILITY						
	STOREFRONT SIGNAGE	SHOP DRAWINGS				
	~~TEMPORARY GRAPHICS~~	~~SHOP DRAWINGS~~				
	MILLWORK FIXTURES	SHOP DRAWINGS			X	X
	FIXTURE COUNTER STONE	SHOP DRAWINGS			X	X
	CONSULT TABLE	SHOP DRAWINGS			X	X
	~~STOCKROOM SHELVING~~	~~REVIEWED BY ARCH. THEN COPIED TO GC WHEN APPROVED~~				
	INTERIOR SIGNAGE	REVIEWED BY ARCH. & WSI FIRST THEN COPIED TO GC WHEN APPROVED			X	X
	~~SPEAKERS~~	~~REVIEWED BY ARCH. & WSI FIRST THEN COPIED TO GC WHEN APPROVED~~				

ALL SUBMITTALS ARE TO BE CLEARLY MARKED TO INCLUDE THE PROJECT NAME, GC NAME & SUBS INFO.

SAMPLES ARE TO BE CLEARLY LABELED TO REFERENCE THE MATERIAL CALL OUT FROM THE FINISH SCHEDULE OR TO THE APPLICABLE SPEC SECTION.

RESPONSIBILITY MATRIX

	OWNER / VENDOR		GENERAL CONTRACTOR		REMARKS
	FURNISH	INSTALL	FURNISH	INSTALL	
GENERAL					
~~LOCK KEYS AND NEW STORE CORES~~	~~X~~			~~X~~	~~BEST CORES; PERMANENT CORS INSTALLED AT TURNOVER-SEE DOOR SCHEDULE CONSTRUCTION CORES BY GC~~
ENTRY DOOR PULLS			X	X	2 PER DOOR LEAF, BONDO EXISTING HOLES
~~THRESHOLDS~~			~~X~~	~~X~~	
HVAC TESTING AND BALANCING REPORT	X	X			GC TO F&I, IF NEEDED FOR INSPECTION
BLOCKING			X	X	
EXTERIOR					
STOREFRONT SIGNAGE	X	X			
INTERIOR / SALES					
SALES FLOOR MILLWORK FIXTURES	X	X			BLOCKING BY G.C. INSTALLED BY FIXTURE INSTALLER
LOOSE FIXTURES / ACCESSORIES	X	X			FIXTURE INSTALLER TO RECEIVE, UNWRAP INVENTORY & ASSEMBLE
CASHWRAP / BACKWRAP	X	X			BLOCKING BY G.C. INSTALLED BY FIXTURE INSTALLER
FIXTURE COUNTERTOPS	X	X			INSTALLED BY FIXTURE INSTALLER
DESIGN RESOURCE WALL & CONSULT TABLE	X	X			GC TO MOUNT AND INSTALL J-BOXES IN FIXTURES
EXISTING / RELOCATED RUG / CURTAIN FLIPPERS	X	X			GC TO PROVIDE STRUCTURAL SUPPORT + BLOCKING + REFINISHING
PAINTED WOOD BASE	X			X	PAINTED BY GC
WALK OFF MAT			X	X	
WELLNESS MAT AT CASHWRAP	X	X			
FIRE EXTINGUISHERS			X	X	
~~WHITE POWDER COATED CORNER GUARDS (SALES)~~	~~X~~			~~X~~	
INTERIOR SIGNAGE	X	X			
NAIL DOWN WOOD FLOORING	X			X	GC TO SUPPLY SUBSTRATE AND ATTACHMENT PER SPEC.
~~WOOD CLADDING FOR B-LINE~~	~~X~~	~~X~~			
BACK OF HOUSE					
~~BULK AND STOCK SHELVING~~	~~X~~	~~X~~		~~X~~	~~RACKS & SHELVING PROVIDED ANSD INSTALLED BY WS VENDOR; GC TO SET ALL SHELVES @ RIVETEERS ONLY. - DEFERRED PERMIT & SIGNOFF BY GC - GC TO PROVIDE 2 DAYS LABOR @ FIRST 2 DAYS @ TURNOVER~~
TRILOGY LOCKS			X	X	
~~EMPLOYEE BREAK COUNTER / TABLE / SHELVING / HARDWARE~~	~~X~~	~~X~~			~~BLOCKING / BACKING INSTALL BY GC~~
~~S&R DESK / SHELVING / HARDWARE~~	~~X~~	~~X~~			BLOCKING / BACKING INSTALL + POWER / DATA BY GC
BOPIS DESK /SHELVING HARDWARE	X	X			~~BLOCKING / BACKING INSTALL + POWER / DATA BY GC~~
~~EMPLOYEE LOCKERS (FOUR TIER)~~	~~X~~	~~X~~			~~BLOCKING / BACKING INSTALL BY GC~~
~~REFRIGERATOR (BREAK AREA)~~	~~X~~			~~X~~	
~~MICROWAVE (BREAK AREA)~~	~~X~~			~~X~~	
~~COAT RACKS & HOOKS~~	~~X~~			~~X~~	~~BLOCKING BY GC~~
~~MOP SHELF~~	~~X~~	~~X~~			~~BY FIXTURE INSTALLER~~
~~MOP HOLDER~~	~~X~~	~~X~~			
~~CORNER GUARDS (STOCKROOM)~~			~~X~~	~~X~~	
MANAGER'S OFFICE					
~~MANAGER'S DESK / SHELVING / HARDWARE~~	~~X~~	~~X~~			~~BLOCKING / BACKING INSTALL + POWER / DATA BY GC~~
~~SAFE~~	~~X~~			~~X~~	~~BOLT TO FLOOR AT TURNOVER~~
~~FABRIC PIN BOARDS~~	~~X~~	~~X~~			~~BY FIXTURE INSTALLER~~
~~CARPET / BASE~~			~~X~~	~~X~~	
ELECTRICAL / LOW VOLTAGE					
~~SECURITY SYSTEM~~	~~X~~	~~X~~			~~CONDUIT / PULL WIRE BY GC / FULL WIRING BY VENDOR~~
~~SECURITY PHONE JACK~~	~~X~~	~~X~~			~~CONDUIT JACK / PULL WIRE BY GC / FULL WIRING BY VENDOR~~
~~PHONE EQUIPMENT AND WIRING~~	~~X~~	~~X~~			~~CONDUIT JACK / PULL WIRE BY GC / FULL WIRING BY VENDOR~~
~~STEREO SYSTEM: SPEAKERS, SUBWOOFER AND RACK~~	~~X~~			~~X~~	~~SEE ELECTRICAL~~
~~STEREO SYSTEM: SUPPORT COMPONENTS~~	~~X~~	~~X~~			~~BY VENDOR~~
~~LIGHTING CONTROLS~~	~~X~~			~~X~~	~~SHIPS WITH LIGHT PACKAGE~~
~~CURRENT LIMITER PANEL~~	~~X~~			~~X~~	
LIGHT FIXTURES & LAMPS	X			X	
FINAL CONNECTION ON EXTERIOR SIGNS	X	X			
~~FINAL CONNECTION ON EXTERIOR LIGHTING~~			~~X~~	~~X~~	
POS CONDUITS / PULL STRINGS			X	X	CONDUIT / PRE-WIRE BY GC
POS EQUIPMENT SET UP AND WIRING	X			X	
RELOCATED TRACK LIGHT AND NEW TRACK RUNS	X			X	GC TO INSTALL TRACK LIGHT RUNS
BUSSTRUT LIGHTING GRIDS	X			X	
DECORATIVE PENDANTS	X			X	GC TO INSTALL J-BOX
WIRELESS ACCESS POINT CONDUIT / PULL STRINGS			X	X	
WIRELESS ACCESS POINT SET UP AND WIRING	X	X			
~~"SHOPPER TRAK" SYSTEM + MOTION SENSORS~~	~~X~~	~~X~~			~~CONDUIT / PRE WIRE BY GC~~
DATA			X	X	CONDUIT / PRE WIRE BY GC. FULL WIRING BY WSI
I.T.			X	X	CONDUIT / PRE WIRE BY GC. FULL WIRING BY WSI
SIGN AND GRAPHICS					
STOREFRONT SIGNAGE: INCLUDES VINYL LETTERS, STORE SHOURS GRAPHICS, INTERIOR SIGNAGE, EXTERIOR BUILDING SIGNAGE, AND BLADE SIGN.	X	X			GC TO PROVIDE BLOCKING AS REQUIRED. GC TO INSTALL CONDUIT & CONNECTION VENDOR TO PROVIDE & INSTALL SIGNS.
VINYL LETTERS AND STORE HOURS GRAPHICS	X	X			
INTERIOR SIGNAGE	X	X			
~~TEMP GRAPHICS~~	~~X~~	~~X~~			
RESTROOMS					
~~FLOOR / WALL TILE AND GROUT AT RESTROOM~~			~~X~~	~~X~~	
ADA SIGNAGE	X	X			(SEE SIGN PACKAGE)
~~TOILET ACCESSORIES~~			~~X~~	~~X~~	
~~LIGHT FIXTURES~~	~~X~~			~~X~~	
~~MIRROR~~	~~X~~			~~X~~	
~~FAUCET~~			~~X~~	~~X~~	
LAVATORY	X			X	

NOTES

ALL FINAL ELECTRICAL CONNECTIONS BY GC

GC IS REQUIRED TO USE WSI PREFERRED VENDORS

ALL OTHER ITEMS TO BE FURNISHED BY GC

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires 6/30/2024

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
RESPONSIBILITY MATRIX

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

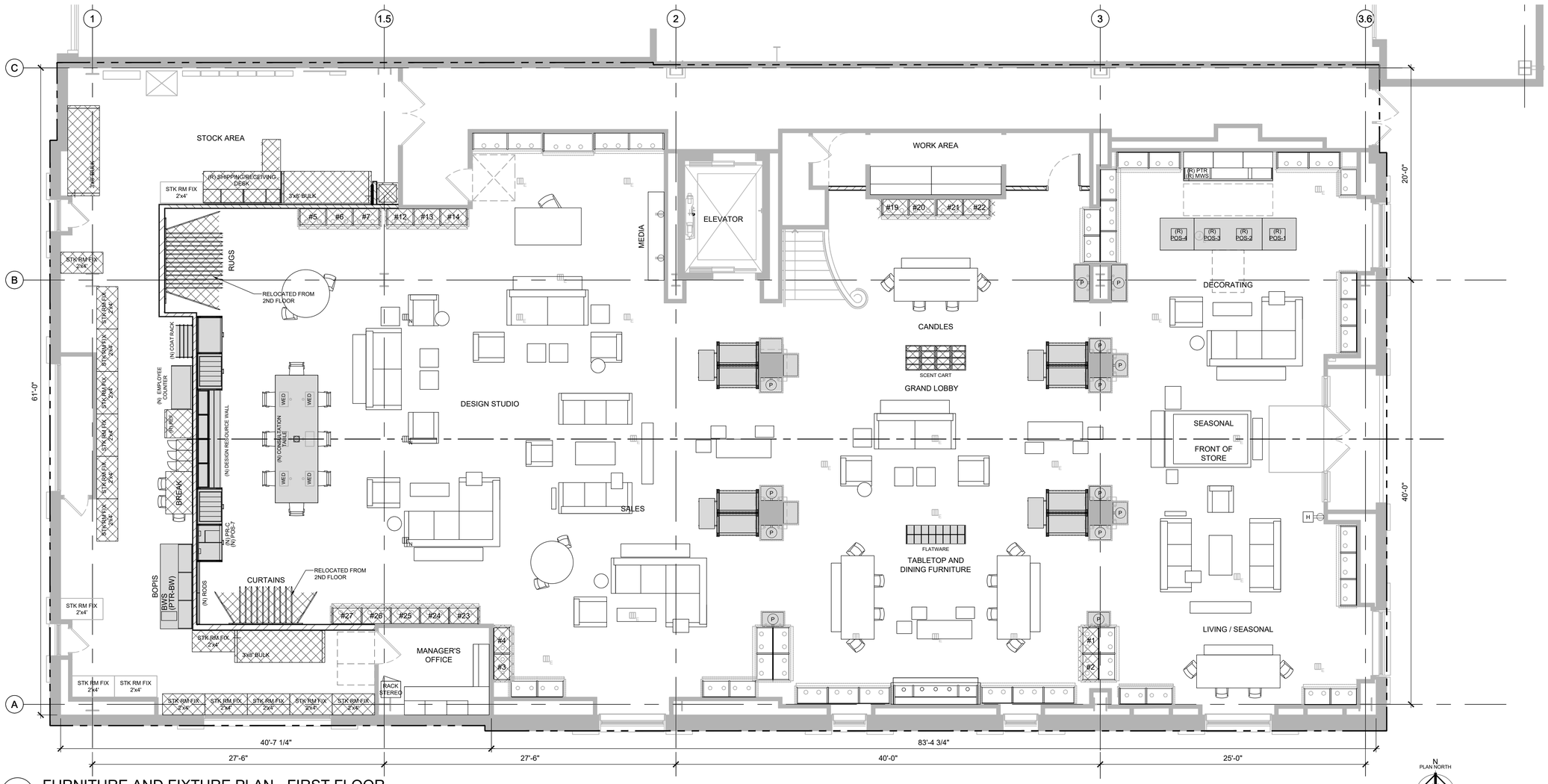
SHEET NO.:
G003

MERCHANDISE BREAKDOWN		
	(E)	(N)
SOFAS	9	11-12
BEDS	7	9-10
TABLES	6	7-8
DESKS	3	3
MEDIA	1	2

AREA CALCULATIONS			
	(E) ft²	(N) ft²	%
SALES - FIRST	4,122 ft²	5,200 ft²	33 %
SALES - SECOND	3,622 ft²	3,622 ft²	23 %
STOCK - FIRST	1,978 ft²	1,287 ft²	8 %
STOCK - SECOND	2,353 ft²	2,353 ft²	15 %
MANAGER'S OFFICE	86 ft²	86 ft²	1 %
RR'S / MISC.	3,332 SF	3,076 SF	20 %
TOTAL	15,493 SF	15,624 SF	100 %

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

STOCK BREAKDOWN		
	(E) ft³	(N) ft³
STOCK - FIRST	7,224 ft³	3,192 ft³
STOCK - SECOND	12,096 ft³	12,312 ft³
TOTAL	19,320 ft³	15,504 ft³



1 FURNITURE AND FIXTURE PLAN - FIRST FLOOR

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

N PLAN NORTH

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:

651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:

PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

FIELD VERIFICATION:

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SHEET NAME:

FIRST FLOOR FIXTURE PLAN

DATE: 1/13/22

PROJECT NO.: 33126

DRAWN: EK

SCALE: AS NOTED

SHEET NO.:

AF101

MERCHANDISE BREAKDOWN

	(E)	(N)
SOFAS	9	11-12
BEDS	7	9-10
TABLES	6	7-8
DESKS	3	3
MEDIA	1	2

AREA CALCULATIONS

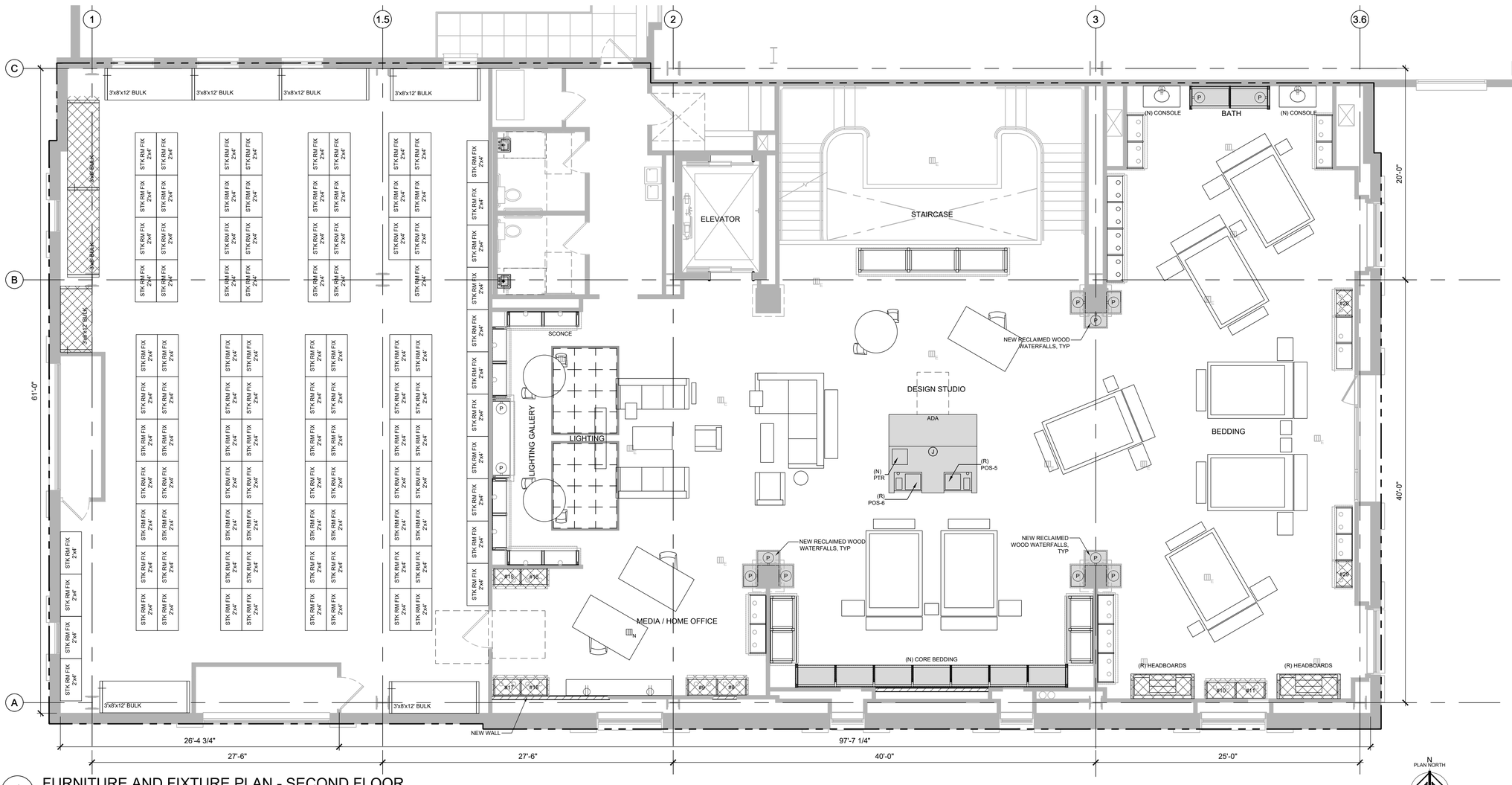
	(E) ft²	(N) ft²	%
SALES - FIRST	4,122 ft²	5,200 ft²	33 %
SALES - SECOND	3,622 ft²	3,622 ft²	23 %
STOCK - FIRST	1,978 ft²	1,287 ft²	8 %
STOCK - SECOND	2,353 ft²	2,353 ft²	15 %
MANAGER'S OFFICE	86 ft²	86 ft²	1 %
RR'S / MISC.	3,332 SF	3,076 SF	20 %
TOTAL	15,493 SF	15,624 SF	100 %

LEGEND

	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

STOCK BREAKDOWN

	(E) ft³	(N) ft³
STOCK - FIRST	7,224 ft³	3,192 ft³
STOCK - SECOND	12,096 ft³	12,312 ft³
TOTAL	19,320 ft³	15,504 ft³



1 FURNITURE AND FIXTURE PLAN - SECOND FLOOR

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

N PLAN NORTH

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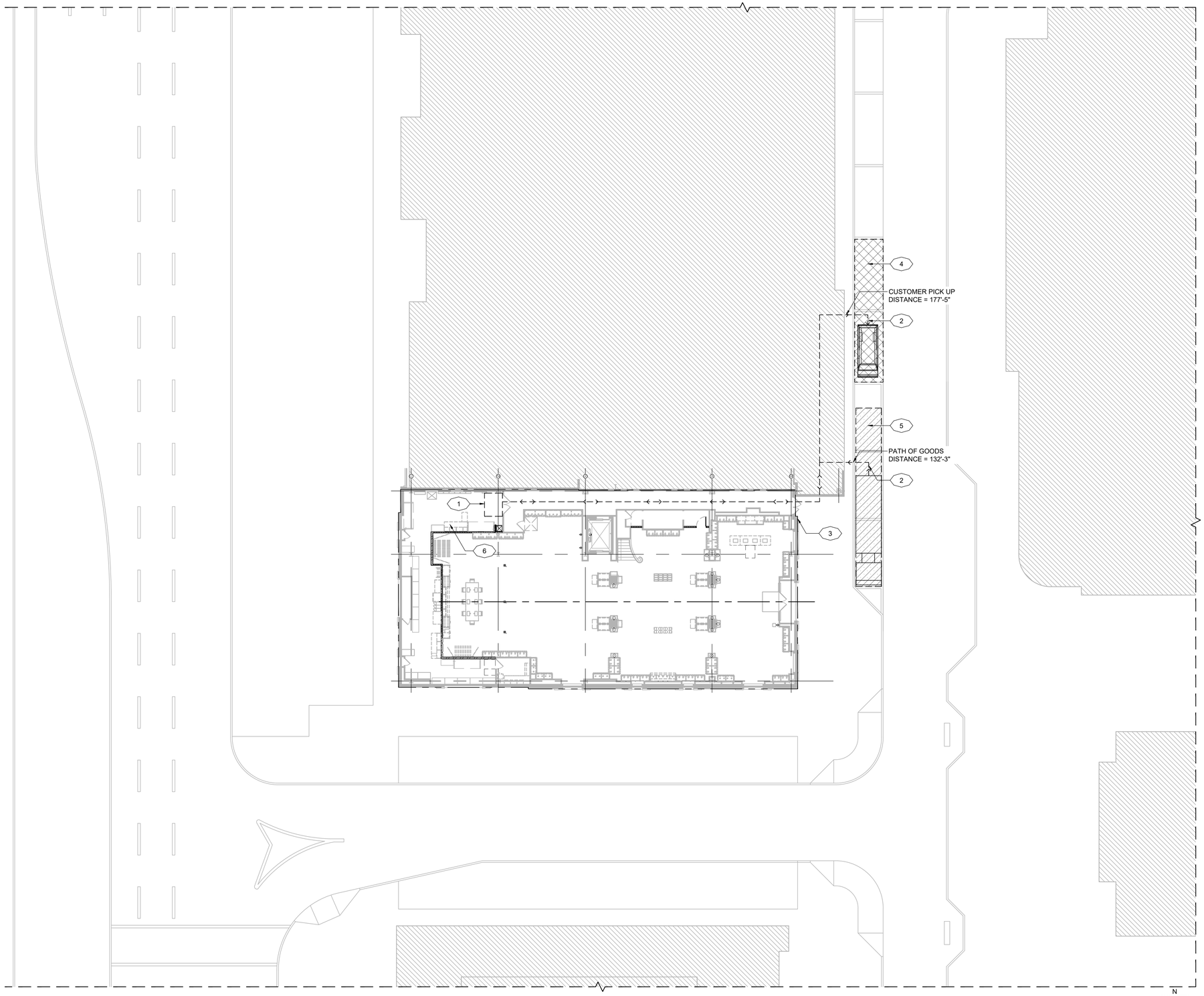
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SHEET NAME:
SECOND FLOOR FIXTURE PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
AF102



1 PATH OF GOODS PLAN

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

SHEET NOTES

1. LANDLORD WILL ENSURE ALL EXISTING OR NEW COMMON AREA TOILETS, ELEVATORS, LIFTS, PARKING, RECEIVING / LOADING DOCKS, TRASH AND RECYCLING LOCATIONS, CORRIDORS AND HARDSCAPE ARE IN COMPLIANCE WITH CURRENT ADA REQUIREMENTS.
2. LANDLORD SHALL PROVIDE ADEQUATE EXTERIOR LIGHTING TO FULLY ILLUMINATE AREAS FOR SECURITY AND WORK DURING NON-DAYLIGHT HOURS.

-X- KEY NOTES

1. (E) STAGING AREA.
2. (E) PATH OF GOODS ROUTE.
3. (E) PB DELIVERY SIGN AND BUZZER.
4. (E) CUSTOMER PICK-UP PARKING SPACES WITH NON-DEDICATED SIGNAGE.
5. (E) LOADING AREA.
6. (E) SHIPPING/RECEIVING DESK.

LEGEND

	LEASE LINE
	PATH OF GOODS
	PROPOSED STAGING AREA
	CUSTOMER PICK-UP
	LOADING

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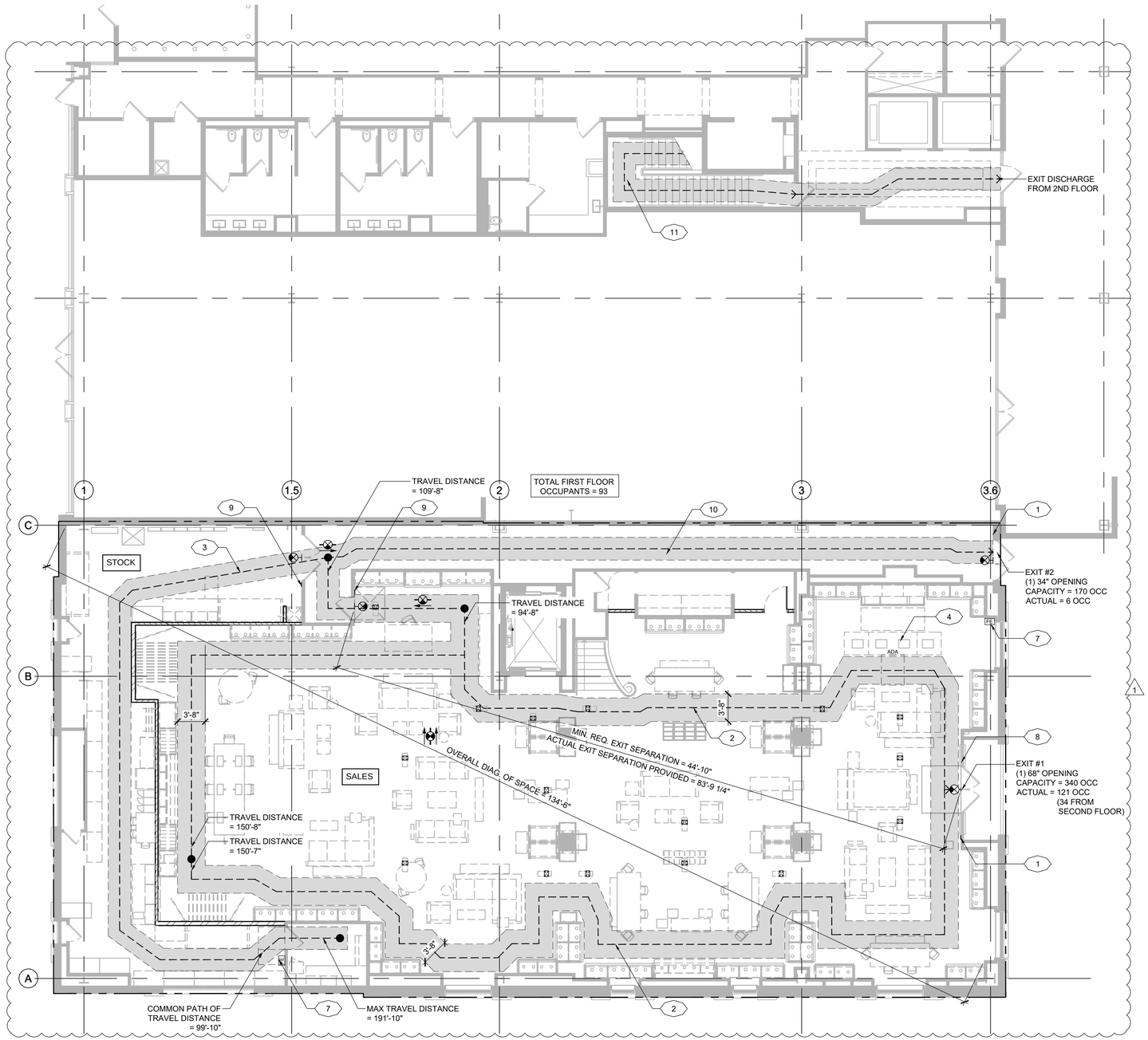
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SHEET NAME:
PATH OF GOODS PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A001



1 EGRESS PLAN - FIRST FLOOR

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

GENERAL NOTES

EXISTING EXITS, EXIT SEPARATION AND EGRESS PATHS OUTSIDE OF THE TENANT SPACE ARE REMAINING THE SAME PER PREVIOUSLY APPROVED PLANS (FOR REFERENCE ON A004 AND A005).

1

SHEET NOTES

1. SITE ARRIVAL ACCESSIBLE ROUTE: CONTRACTOR TO VERIFY THAT ALL COMPONENTS OF THE ACCESSIBLE ROUTE FROM NEAREST ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER DROP-OFF AND LOADING ZONES; PUBLIC STREET AND SIDEWALKS; AND PUBLIC TRANSPORTATION STOP TO THE ACCESSIBLE FACILITY ENTRANCE, INCLUDING BUT NOT LIMITED TO:
   - A. WALKING SURFACES NOT TO EXCEED 1:20 RUNNING SLOPE
   - B. CHANGES IN LEVEL DO NOT EXCEED 1/4" VERTICAL OR 1/2" BEVELED
   - C. CLEAR WIDTH OF EXTERIOR WALKWAYS ON THE ACCESSIBLE ROUTE ARE NOT LESS THAN 48"
   - D. RAMPS DO NOT EXCEED A RUNNING SLOPE OF 1:12 OR CROSS SLOPE 1:48
   - E. ADDITIONAL REQUIREMENTS AS DETERMINED BY THE LOCAL AGENCY HAVING JURISDICTION; CONTRACTOR TO CONSULT WITH BUILDING INSPECTOR.
2. CONTRACTOR TO VERIFY THAT SLOPE OF EXTERIOR DOOR LANDINGS DO NOT EXCEED 1:48 (2%). NOTIFY OWNER IMMEDIATELY IF SLOPE IS GREATER.
3. CONTRACTOR TO VERIFY THAT EXISTING THRESHOLDS AT ALL EGRESS DOORS COMPLY WITH CURRENT ACCESSIBILITY REQUIREMENTS; 1/2" MAXIMUM CHANGE IN LEVEL AND BEVELED IF GREATER THAT 1/4" IN HEIGHT. NOTIFY OWNER IMMEDIATELY IF GREATER CHANGES IN LEVEL EXIST.
4. PANIC HARDWARE NOT REQUIRED.
   PROVIDE READILY VISIBLE SIGN, CONFORMING TO CODE SECTION 1010.1.9.4, POSTED ON EGRESS SIDE OF THE DOOR ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED."

KEY NOTES

1. (N) TACTILE "EXIT" SIGN PER SIGNAGE DETAILS.
2. INDICATES 44" WIDE PATH OF TRAVEL EXIT ROUTE.
3. INDICATES 36" WIDE PATH OF TRAVEL EXIT ROUTE.
4. (N) ACCESSIBLE CASHWRAP.
5. (E) ACCESSIBLE RESTROOM.
6. (E) ACCESSIBLE DRINKING FOUNTAIN.
7. (E) FIRE EXTINGUISHER, TYPE & LOCATION TO BE VERIFIED BY THE LOCAL FIRE MARSHALL.
8. REPLACE (E) 1" WHITE VINYL LETTERS READING "THIS DOOR TO REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED."
9. (N) TACTILE "EXIT ROUTE" SIGN PER SIGNAGE DETAILS.
10. 1 HR LL CORRIDOR TO REMAIN CLEAR AT ALL TIMES FOR EXIT PASSAGEWAY; REFER TO EXISTING FIRST FLOOR EGRESS PLAN ON A004.
11. (E) ENCLOSED FIRE RATED LL EXIT STAIR.

1

LEGEND

	INDICATES ACCESSIBLE PATH OF TRAVEL
FE	(E) PORTABLE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 4A:40B:C, GC SHALL VERIFY TYPE AND EXACET LOCATION WITH FIRE MARSHALL AND PROJECT MANAGER.
	(E) ILLUMINATED EXIT SIGN W/ BATTERY BACK UP - REFER TO ELECTRICAL DRAWINGS FOR MORE INFO.
	(E) EMERGENCY LIGHT W/ BATTERY BACK UP - REFER TO ELECTRICAL DRAWINGS FOR MORE INFO.

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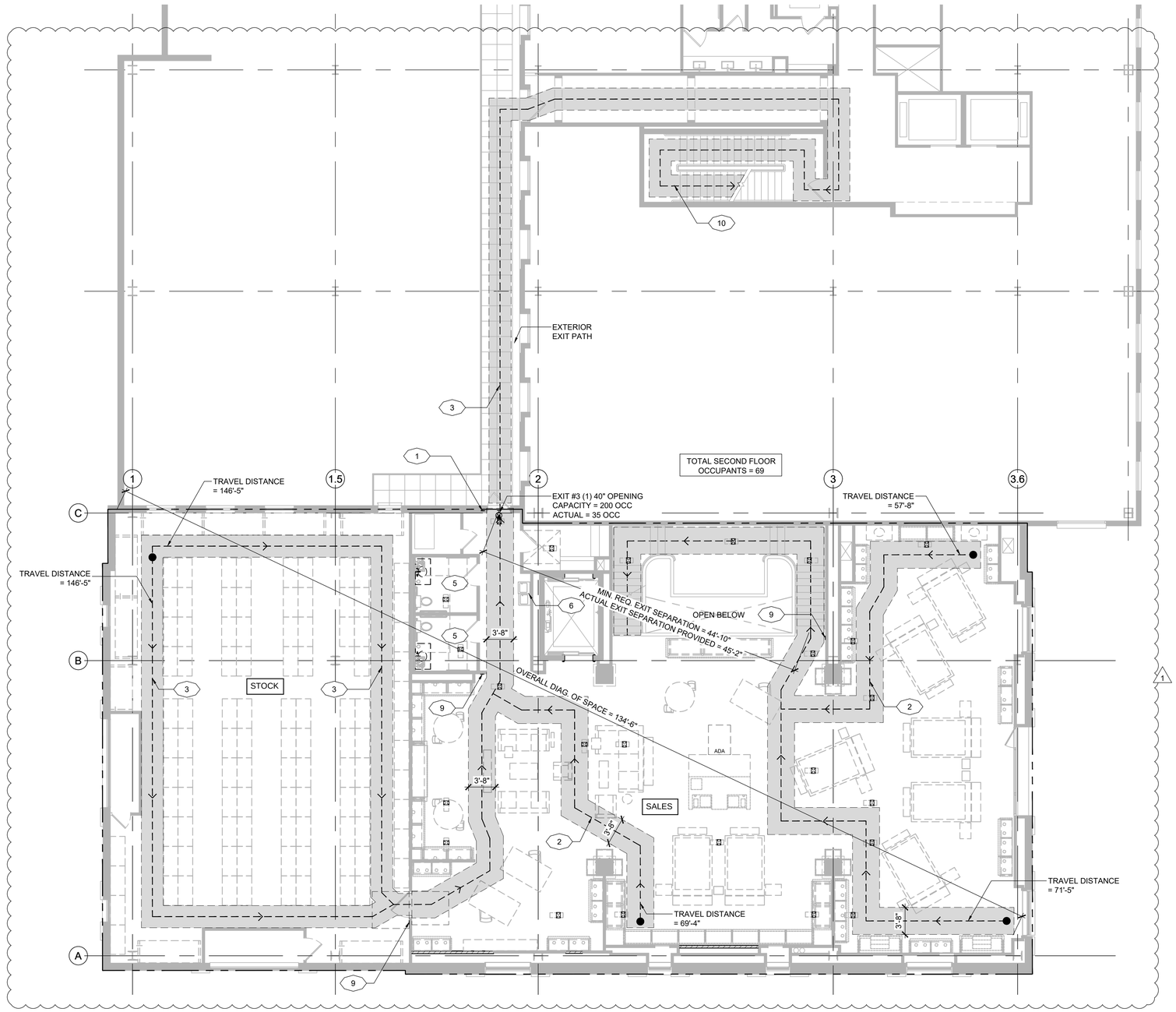
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SHEET NAME:
FIRST FLOOR
EGRESS PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A002



1 EGRESS PLAN - SECOND FLOOR

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

N
PLAN NORTH

GENERAL NOTES

EXISTING EXITS, EXIT SEPARATION AND EGRESS PATHS OUTSIDE OF THE TENANT SPACE ARE REMAINING THE SAME PER PREVIOUSLY APPROVED PLANS (FOR REFERENCE ON A004 AND A005).

1

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LEGEND

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	(E) EMERGENCY LIGHT W/ BATTERY BACK UP - REFER TO ELECTRICAL DRAWINGS FOR MORE INFO.

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PHONE: 480.912.1169 zbr.global

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POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO.
49829
ZACHARY B. SHIRK
Date Signed: 01/13/2022
ARIZONA U.S.A.
EXPIRES: 6/30/2024

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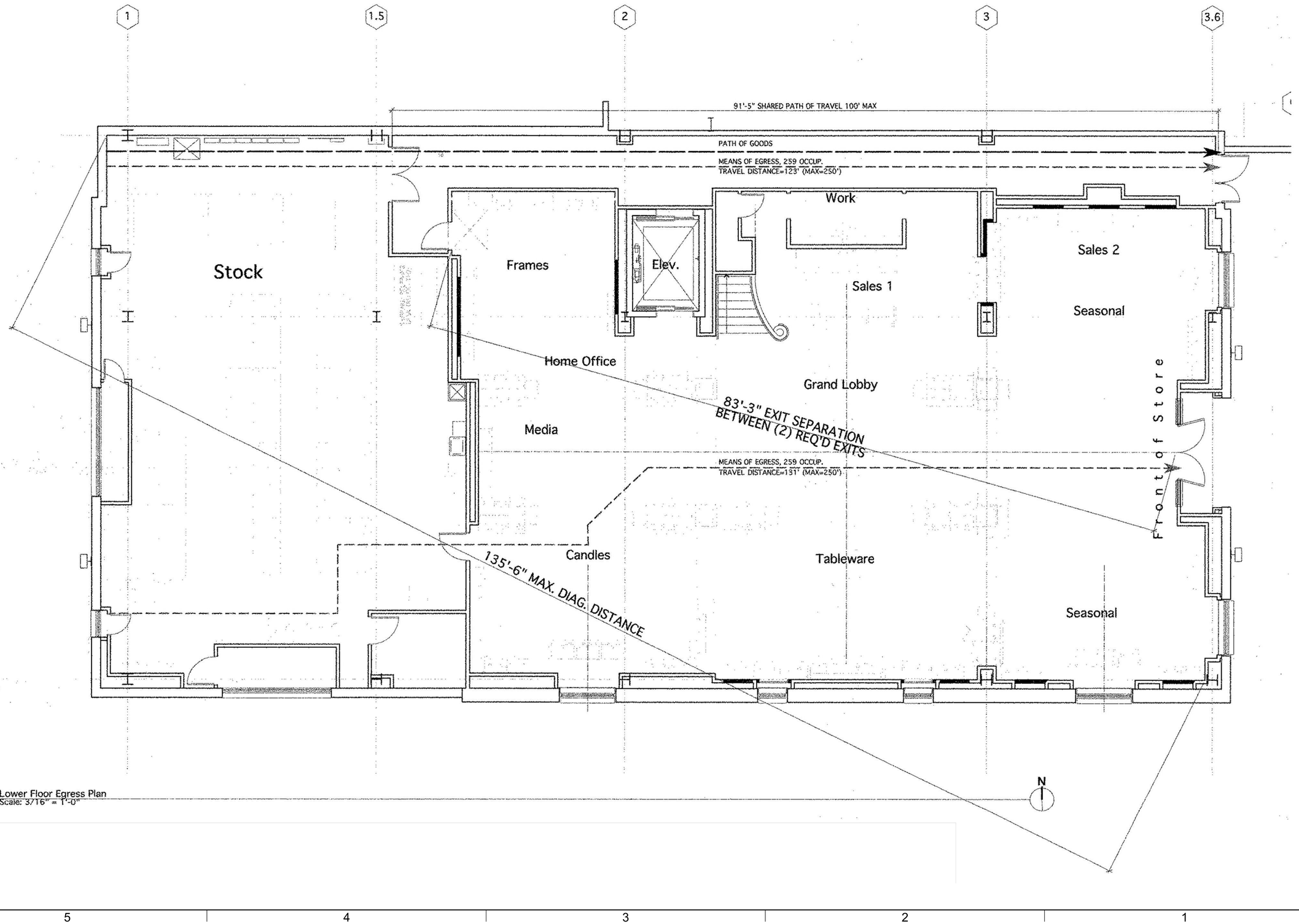
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SHEET NAME:
SECOND FLOOR
EGRESS PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A003

FOR REFERENCE ONLY



1 Lower Floor Egress Plan
Scale: 3/16" = 1'-0"

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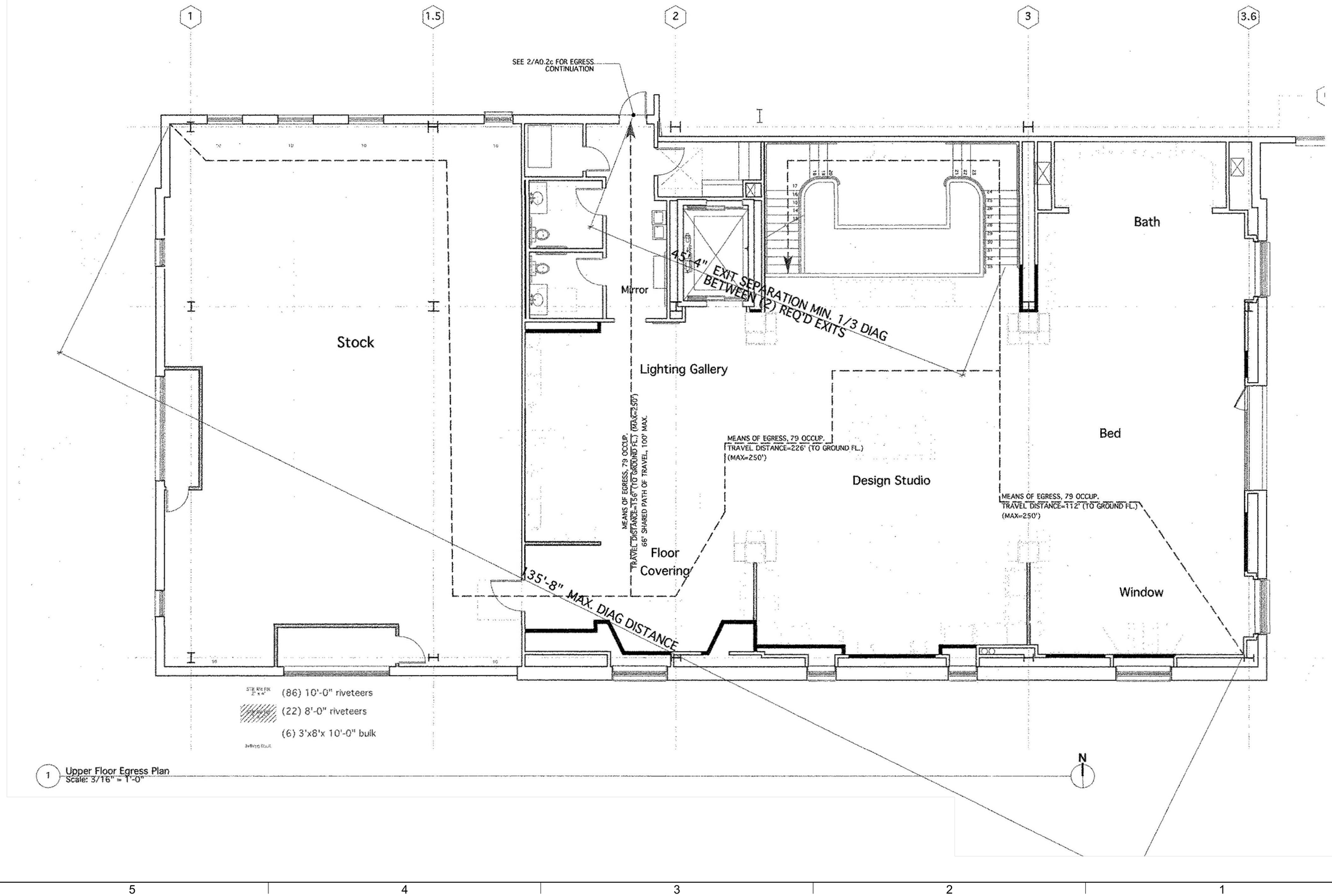
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SHEET NAME:
FIRST FLOOR EXISTING EGRESS PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A004

FOR REFERENCE ONLY



1 Upper Floor Egress Plan
Scale: 3/16" = 1'-0"

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SHEET NAME:
SECOND FLOOR EXISTING EGRESS PLAN

DATE:	PROJECT NO.:
1/13/22	33126

DRAWN:	SCALE:
EK	AS NOTED

SHEET NO.:
A005

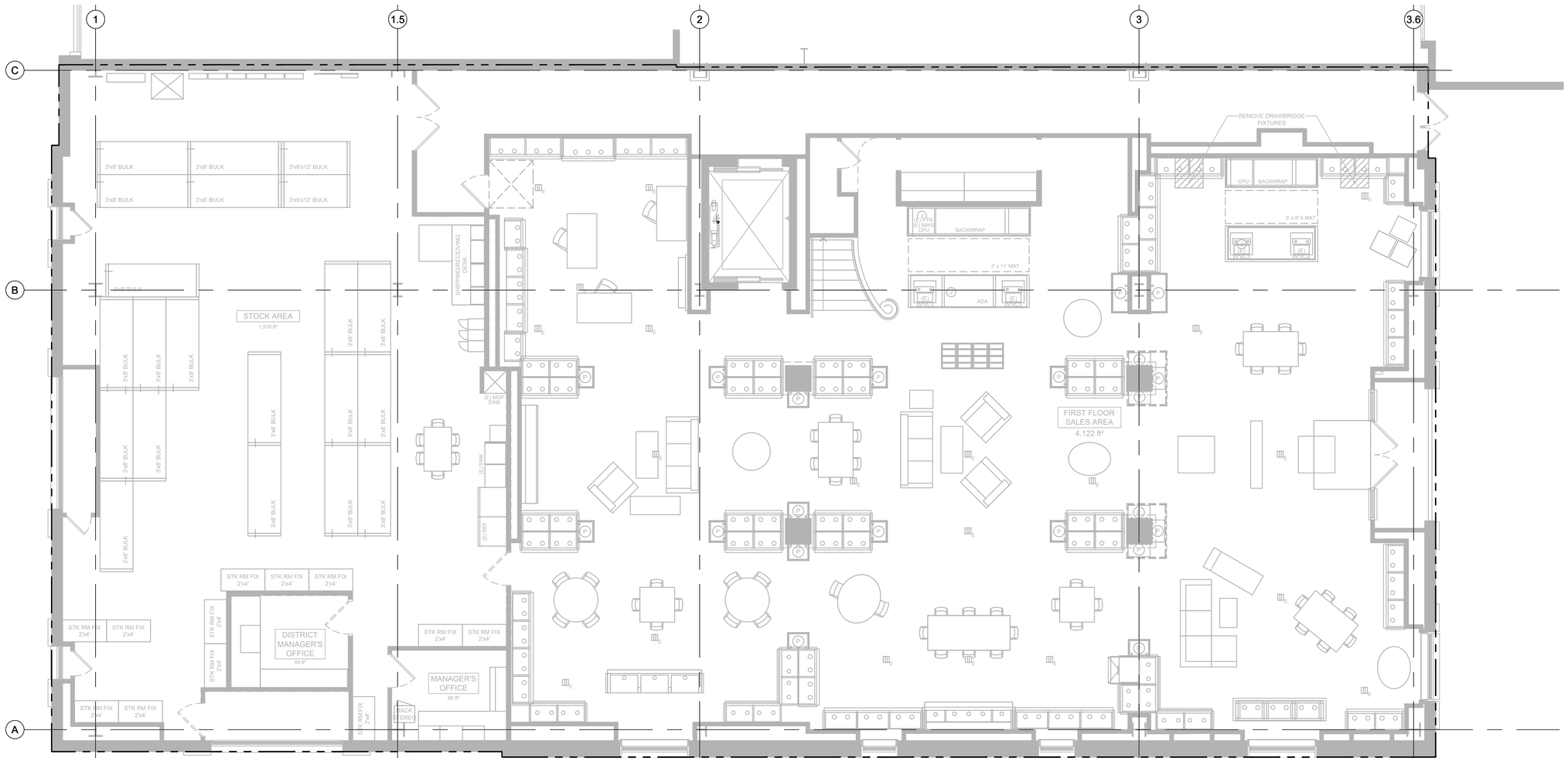
FOR REFERENCE ONLY

1

MERCHANDISE BREAKDOWN	
	EXISTING
SOFAS	9
BEDS	7
TABLES	6
DESKS	3
MEDIA	1

STOCKROOM CALCULATIONS			
SIZE	COUNT 1ST FLR	COUNT 2ND FLR	FT³
2'x4'x12'	13	108	11,616 ft³
2'x3'x12'	1	0	72 ft³
3'x8'x12' BULK	19	6	7,200 ft³
3'x6'x12' BULK	2	0	432 ft³
TOTAL	35	114	19,320 ft³

AREA CALCULATIONS		
	AREA ft²	%
SALES - FIRST	5,200 ft²	33 %
SALES - SECOND	3,622 ft²	23 %
STOCK - FIRST	1,287 ft²	8 %
STOCK - SECOND	2,353 ft²	15 %
MANAGER'S OFFICE	86 ft²	1 %
RR'S / MISC.	3,076 SF	20 %
TOTAL	15,624 SF	100 %



1 EXISTING FURNITURE AND FIXTURE PLAN - FIRST FLOOR

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

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SHEET NAME:
FIRST FLOOR EXISTING FIXTURE PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A011

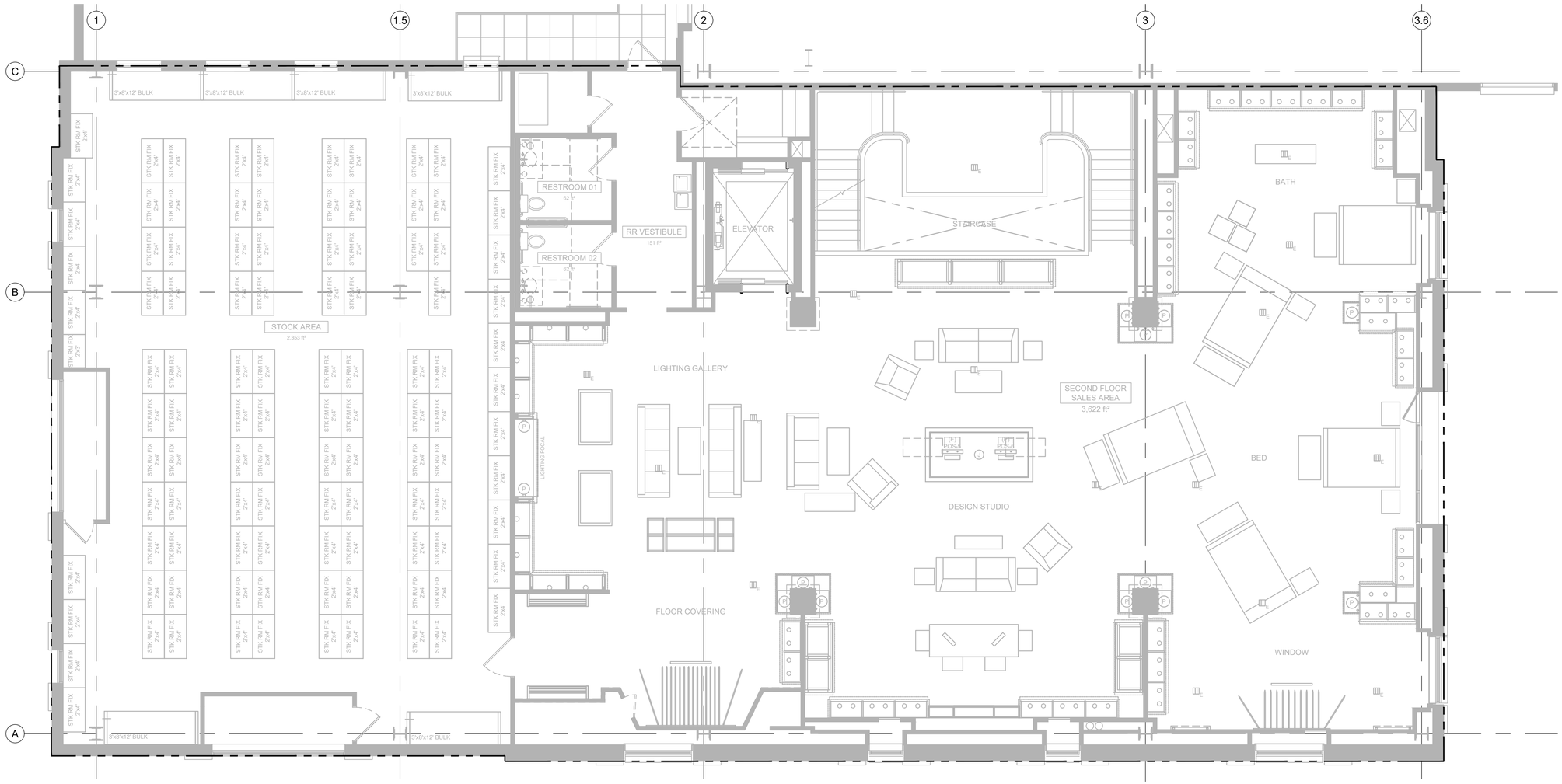
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1

MERCHANDISE BREAKDOWN	
	EXISTING
SOFAS	9
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MEDIA	1

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TOTAL	15,624 SF	100 %



1 EXISTING FURNITURE AND FIXTURE PLAN - SECOND FLOOR

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

N
PLAN NORTH

zebra

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SHEET NAME:
SECOND FLOOR EXISTING FIXTURE PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A012

LEGEND	
	LEASE LINE
	EXISTING WALL
	EXISTING WALL / CONSTRUCTION TO BE DEMOLISHED
	RELOCATED FIXTURE

KEY NOTES

1. (E) FIXTURES TO BE REMOVED AND DISCARDED; FIXTURE INSTALLER TO SAVE ANY PIECES NECESSARY FOR RELOCATION AND REPAIR.
2. (E) NON STRUCTURAL PARTITIONS TO BE REMOVED.
3. (E) STOREFRONT TO REMAIN, CLEAN TO LIKE NEW CONDITION.
4. (E) DEMISING WALL TO REMAIN, PROTECT DURING CONSTRUCTION. PATCH AND REPAIR TO LIKE NEW CONDITION.
5. LEASE LINE.
6. (E) SALES FIXTURE TO REMAIN.
7. (E) FIXTURES TO BE REMOVED & RELOCATED; REFER TO AF100 FOR PROPOSED LOCATION.
8. (E) DRAWBRIDGE FIXTURES TO BE REMOVED THROUGHOUT STORE; PATCH/REPAIR WALLS AS NECESSARY.
9. REMOVE (E) WOOD BUNKERS.
10. (E) DOOR TO BE REMOVED; SAVE (E) HARDWARE FOR (N) SALES TO STOCK DOOR.

KEY NOTES

11. (E) WATERFALL SHELVES TO BE REMOVED AND DISCARDED; SAVE STANDARDS AND BRACKETS FOR REUSE.
12. (E) GIFT REGISTRY AND ALL ASSOCIATED POWER/DATA TO BE REMOVED.
13. (E) FIXTURE TO BE REMOVED; DE-INSTALL I.T. EQUIPMENT AND SAVE FOR RELOCATION, REFER TO FIXTURE PLAN FOR NEW LOCATIONS
14. (E) STOCKROOM SHELVES TO REMAIN.
15. (E) ENTRY MAT TO BE REMOVED AND REPLACED.
16. REMOVE UPPER SHELVES ON HUTCH; BID ALT: REMOVE COUNTER TOP
17. ALL (E) PIN MOUNTED SIGNAGE TO BE REMOVED THROUGHOUT SALES FLOOR; SAVE ELEVATOR, DESIGN STUDIO , FLOOR COVERINGS AND WINDOW COVERINGS FOR RELOCATION.
18. GC TO NOTIFY ARCHITECT OF ANY UTILITIES OR OTHER ITEMS FOUND INSIDE WALL FUR OUTS.
19. SAVE (E) PRINTER & MWS FOR RELOCATION.

1 DEMOLITION PLAN - FIRST FLOOR

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

N PLAN NORTH

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SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.: 651

POTTERY BARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT CERTIFICATE NO. 49829 ZACHARY B. SHIRK Date Signed 01/13/2022 ARIZONA U.S.A. Expires: 6/30/2024

FIELD VERIFICATION:
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SHEET NAME: FIRST FLOOR DEMOLITION PLAN

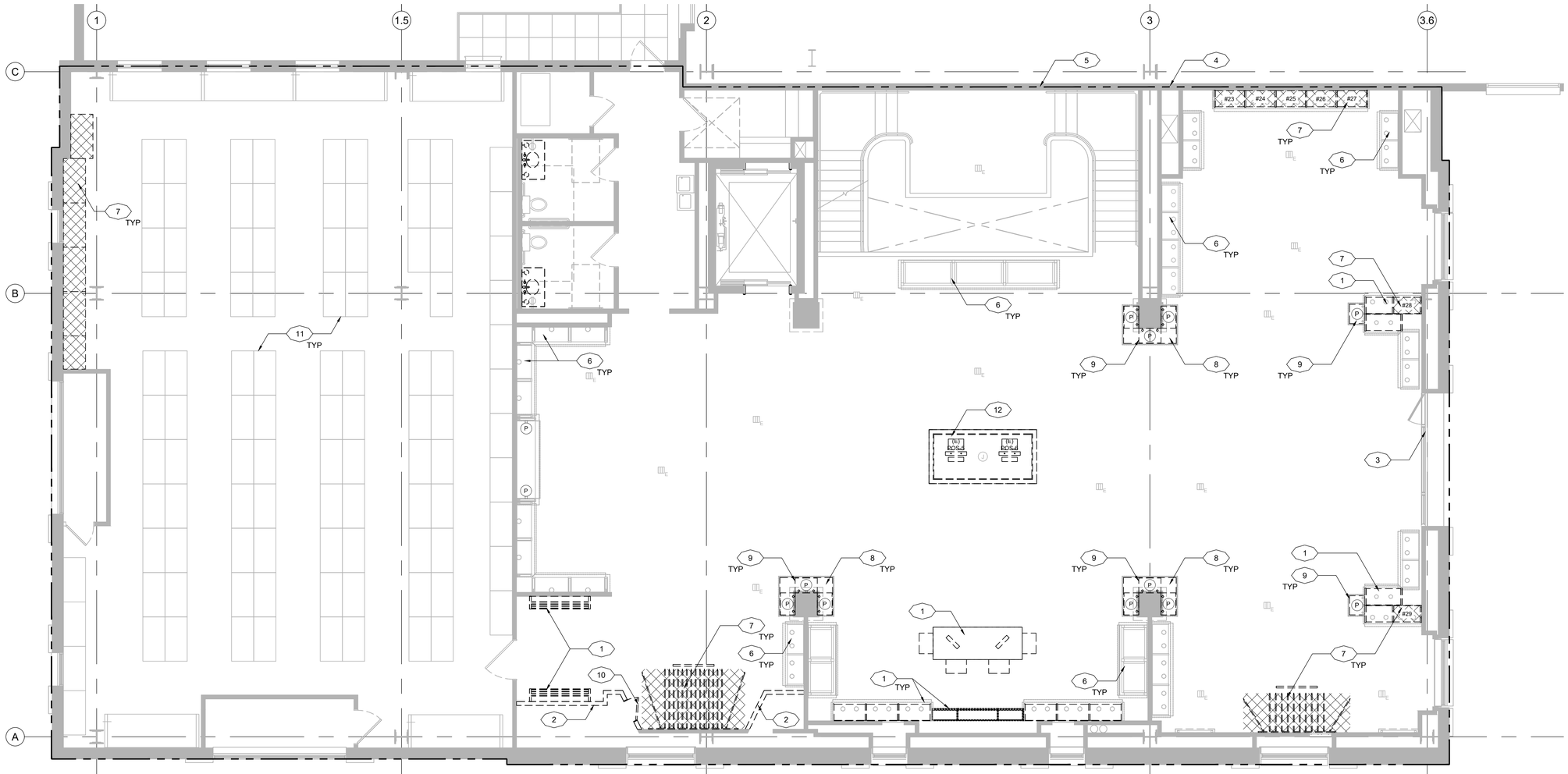
DATE:	PROJECT NO.:
1/13/22	33126
DRAWN: EK	SCALE: AS NOTED

SHEET NO.: A021

LEGEND	
	LEASE LINE
	EXISTING WALL
	EXISTING WALL / CONSTRUCTION TO BE DEMOLISHED
	RELOCATED FIXTURE

KEY NOTES

1. (E) FIXTURES TO BE REMOVED AND DISCARDED; FIXTURE INSTALLER TO SAVE ANY PIECES NECESSARY FOR RELOCATION AND REPAIR.
2. (E) NON STRUCTURAL PARTITIONS TO BE REMOVED.
3. (E) STOREFRONT TO REMAIN, CLEAN TO LIKE NEW CONDITION.
4. (E) DEMISING WALL TO REMAIN, PROTECT DURING CONSTRUCTION. PATCH AND REPAIR TO LIKE NEW CONDITION.
5. LEASE LINE.
6. (E) SALES FIXTURE TO REMAIN.
7. (E) FIXTURES TO BE REMOVED & RELOCATED; REFER TO AF100 FOR PROPOSED LOCATION.
8. REMOVE (E) WOOD BUNKERS.
9. (E) WATERFALL SHELVES TO BE REMOVED AND DISCARDED; SAVE STANDARDS AND BRACKETS FOR REUSE.
10. (E) DOOR TO BE REMOVED.
11. (E) STOCKROOM SHELVES TO REMAIN.
12. REMOVE (E) DSCW; RETAIN POWER.



1 FURNITURE AND FIXTURE PLAN - SECOND FLOOR

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

N PLAN NORTH

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SCOTTSDALE, AZ 85254

REVISIONS

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1	01/13/22	REVISION 1

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ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
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SHEET NAME: SECOND FLOOR DEMOLITION PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: A022

LEGEND	
	(E) EMERGENCY LIGHTS TO REMAIN
	(E) MECHANICAL EQUIPMENT TO BE REMOVED
	(E) RECESSED 2-LAMP RECTAGULAR LUMINAIRE TO BE REMOVED.
	(E) TRACK HEADS TO BE REMOVED.
	(E) FIRE SPRINKLER HEADS TO REMAIN.
WAP	(E) WIRELESS ACCESS POINT

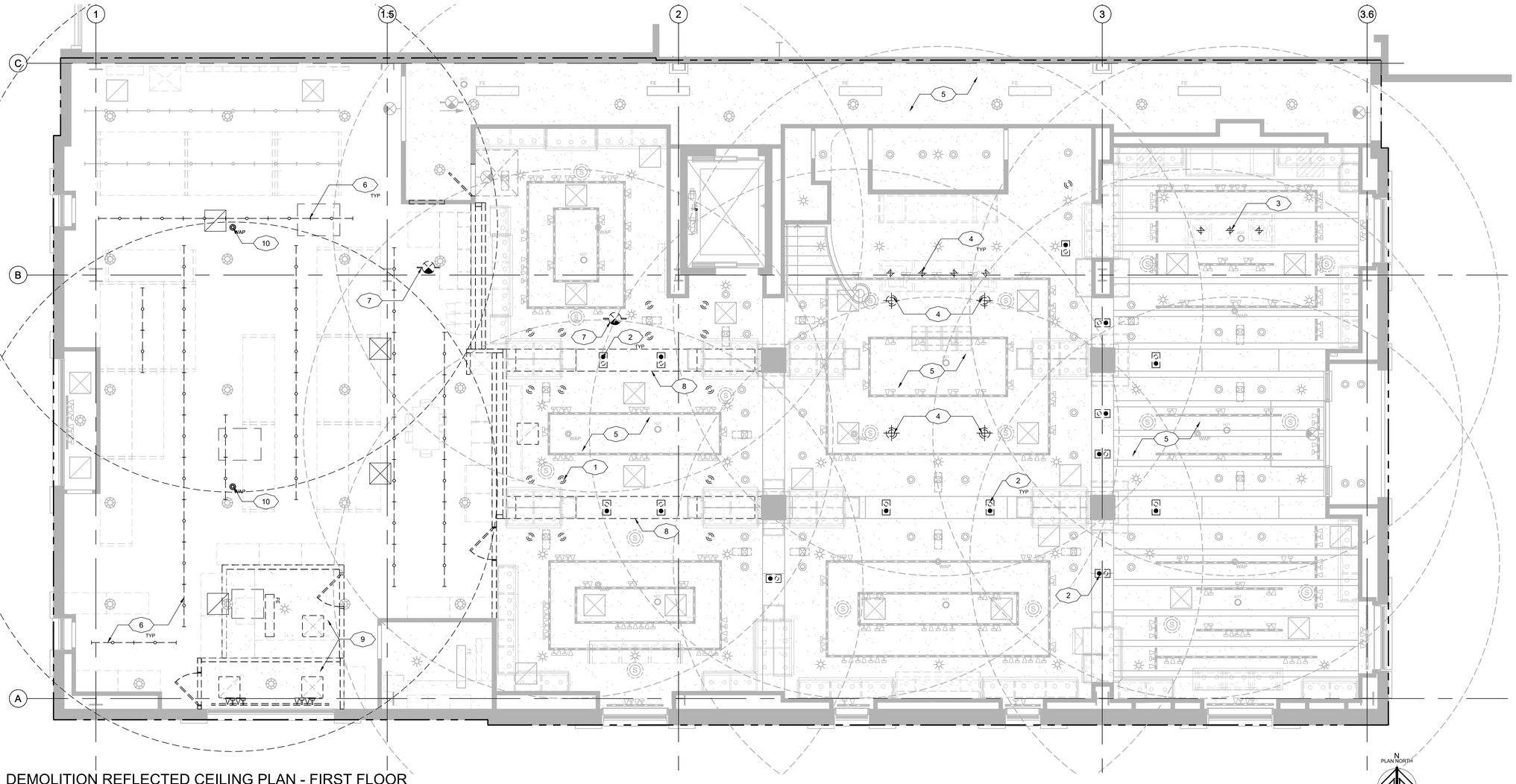
LEGEND	
	(E) TRACK LIGHT TO BE REMOVED
	(E) FLUORESCENT STRIP LIGHT TO BE REMOVED
FE	(E) FLUORESCENT OVERHEAD LIGHT TO BE REMOVED
	(E) PENDANTS TO BE REMOVED
	(E) RECESSED DOWNLIGHT TO BE REMOVED
	(E) EXIT SIGN TO BE REMOVED

KEYNOTES

1. (E) RECESSED DOWNLIGHTS TO BE REMOVED AS SHOWN. PATCH & REPAIR CEILING AS REQUIRED TO ACCEPT NEW FINISHES.
2. (E) RECESSED MULTIPLE LIGHT FIXTURES TO BE REMOVED THROUGHOUT. PATCH & REPAIR CEILING AS REQUIRED TO ACCEPT NEW FINISHES. BID ALT: KEEP EXISTING TO REMAIN.
3. (E) LIGHT FIXTURE ABOVE CASHWRAP TO BE REMOVED, PATCH AND REPAIR CEILING; REUSE POWER FOR NEARBY NEW FIXTURE.
4. REMOVE (E) PENDANTS; PATCH/REPAIR CEILING AS REQUIRED.
5. (E) CEILING TO REMAIN. PATCH AND REPAIR TO ACCEPT NEW FINISH.
6. (E) FLUORESCENT STRIP LIGHT TO BE REMOVED. TO SAVE FOR REUSE. REFER TO REFLECTED CEILING PLAN FOR NEW LOCATION.
7. (E) EXIT LIGHTS TO BE RELOCATED. REFER TO REFLECTED CEILING PLAN FOR NEW LOCATION.
8. (E) SOFFIT TO BE REMOVED. PATCH/REPAIR CEILING AS REQUIRED.
9. (E) GYPSUM CEILING TO BE REMOVED.
10. (E) WAP TO BE RELOCATED AS NEEDED.

SHEET NOTES

1. EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES WITH THESE DOCUMENTS.
2. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY ITEM SHOWN TO BE REMOVED THAT MAY HAVE STRUCTURAL IMPLICATIONS.



1 DEMOLITION REFLECTED CEILING PLAN - FIRST FLOOR

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

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SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
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REGISTERED ARCHITECT
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ARIZONA U.S.A.
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SHEET NAME:
FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A031

LEGEND	
	(E) EMERGENCY LIGHTS TO REMAIN
	(E) MECHANICAL EQUIPMENT TO BE REMOVED
	(E) RECESSED 2-LAMP RECTAGULAR LUMINAIRE TO BE REMOVED.
	(E) TRACK HEADS TO BE REMOVED.
	(E) FIRE SPRINKLER HEADS TO REMAIN.
WAP	(E) WIRELESS ACCESS POINT

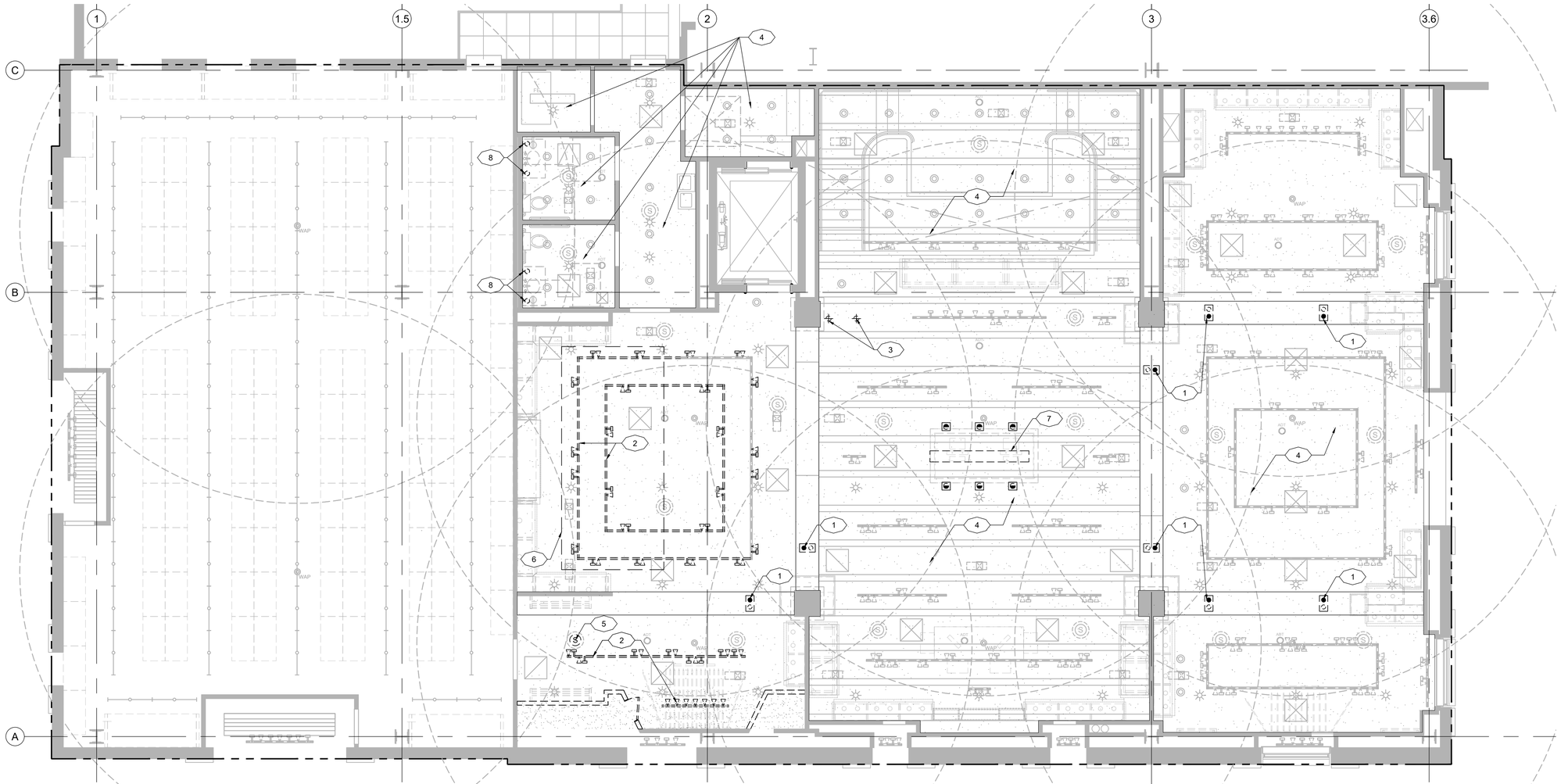
LEGEND	
	(E) TRACK LIGHT TO BE REMOVED
	(E) FLUORESCENT STRIP LIGHT TO BE REMOVED
FE	(E) FLUORESCENT OVERHEAD LIGHT TO BE REMOVED
	(E) PENDANTS TO BE REMOVED
	(E) RECESSED DOWNLIGHT TO BE REMOVED
	(E) EXIT SIGN TO BE REMOVED

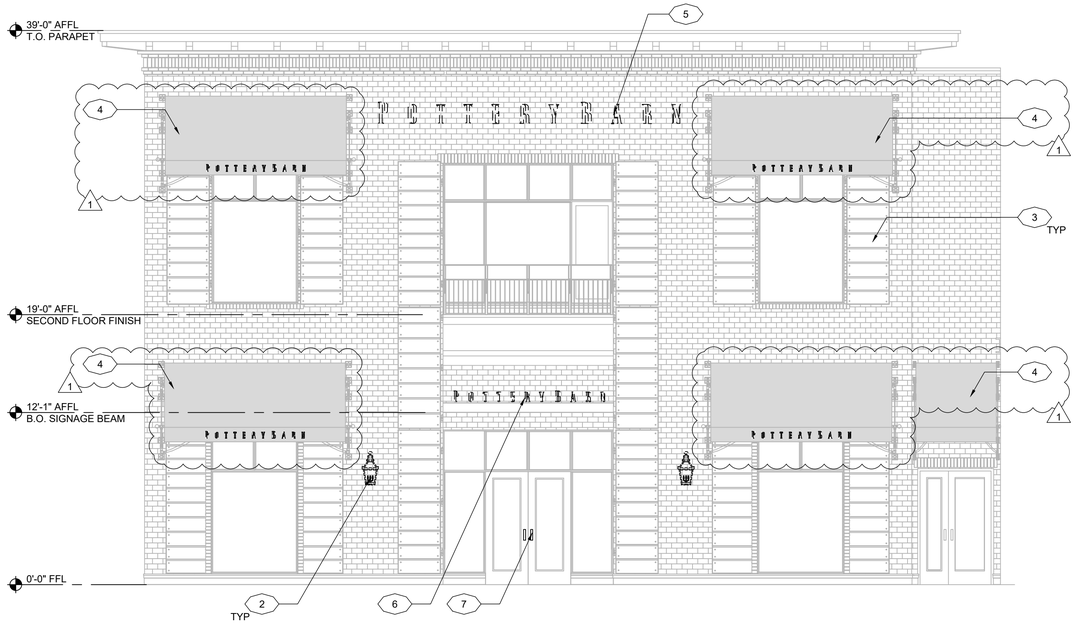
KEYNOTES

1. (E) RECESSED MULTIPLE LIGHT FIXTURES TO BE REMOVED THROUGHOUT. PATCH & REPAIR CEILING AS REQUIRED TO ACCEPT NEW FINISHES.
2. (E) PORTION OF TRACK LIGHTING TO BE REMOVED. ALL (E) TRACK HEADS TO BE RELOCATED. REFER TO REFLECTED CEILING PLAN FOR NEW LOCATION.
3. REMOVE (E) PENDANTS; PATCH/REPAIR CEILING AS REQUIRED.
4. (E) CEILING TO REMAIN. PATCH AND REPAIR TO ACCEPT NEW FINISH.
5. REMOVE (E) SPEAKER; PATCH/REPAIR CEILING AS REQUIRED. SAVE FOR RELOCATION; REFER TO REFLECTED CEILING PLAN FOR NEW LOCATION.
6. OPEN UP CEILING TO INSTALL UNISTRUT FOR (N)LIGHTING GRIDS; REFER TO BLOCKING PLAN.
7. REMOVE (E) HANGING SIGN; PATCH/REPAIR CEILING AS REQUIRED.
8. REMOVE (E) PENDANTS; SAVE POWER FOR REUSE NEARBY.

SHEET NOTES

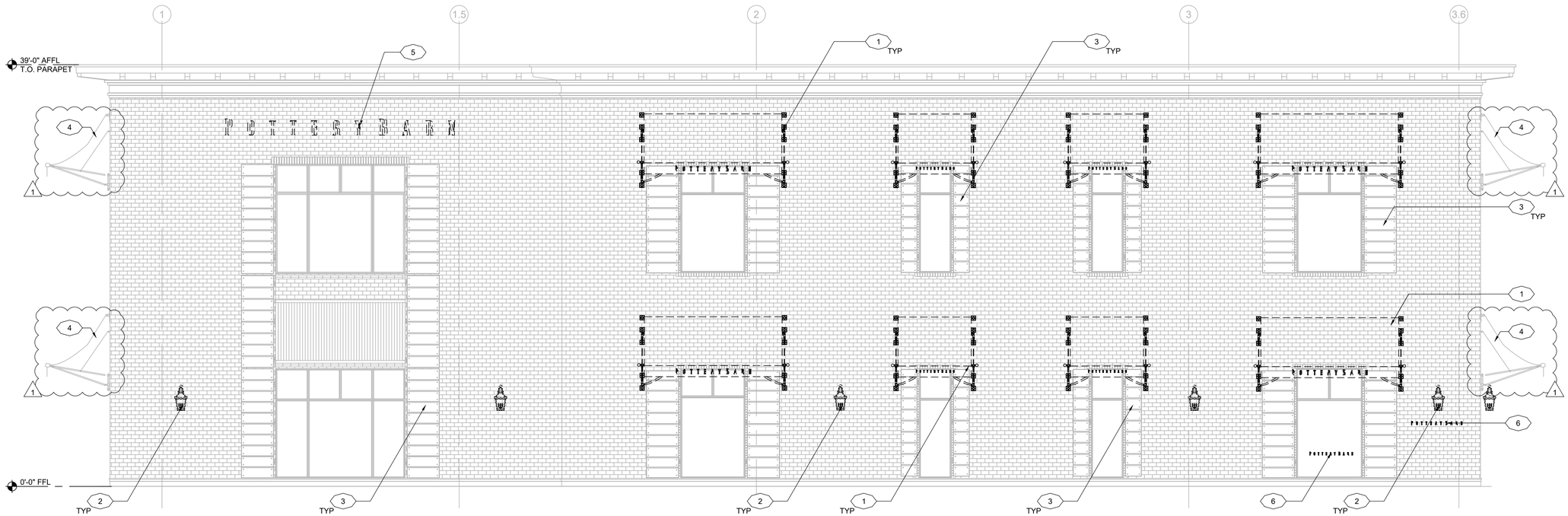
1. EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES WITH THESE DOCUMENTS.
2. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY ITEM SHOWN TO BE REMOVED THAT MAY HAVE STRUCTURAL IMPLICATIONS.


1
1.5
2
3
3.6
A
B
C
WAP
WIC
KIT
WIC
WAP
WAP
WAP



2 EAST ELEVATION

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



1 SOUTH ELEVATION

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

KEY NOTES

1. (E) AWNINGS TO BE REMOVED. PATCH AND REPAIR BRICK FINISH.
2. (E) WALL SCONCE TO BE REMOVED. PATCH AND REPAIR BRICK FINISH.
3. (E) WOOD SHUTTERS TO REMAIN.
4. (E) AWNING FRAME TO REMAIN; REPLACE FABRIC.
5. REMOVE (E) SIGN; RETAIN POWER.
6. REMOVE (E) SIGN.
7. REMOVE (E) PULLS, PATCH/BONDO HOLES.

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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SCOTTSDALE, AZ 85254

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ARIZONA U.S.A.
Expires: 6/30/2024

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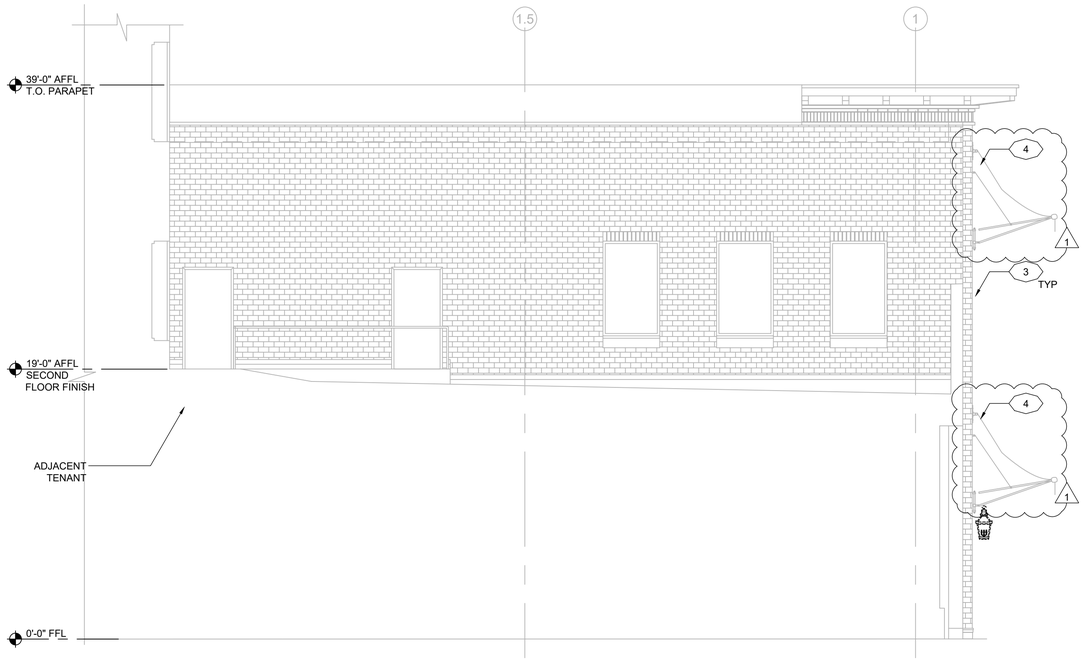
SHEET NAME:
EXTERIOR DEMOLITION ELEVATIONS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A041

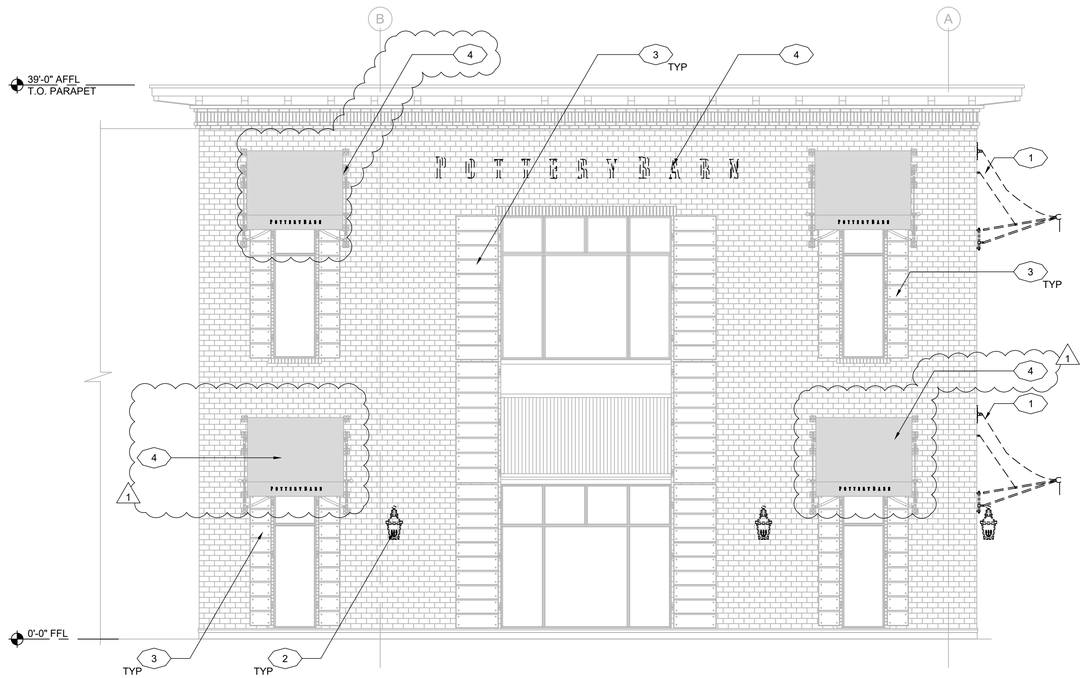
KEY NOTES

1. (E) AWNINGS TO BE REMOVED. PATCH AND REPAIR BRICK FINISH.
2. (E) WALL SCONCE TO BE REMOVED. PATCH AND REPAIR BRICK FINISH.
3. (E) WOOD SHUTTERS TO REMAIN.
4. REMOVE (E) SIGN; RETAIN POWER.



2 NORTH ELEVATION

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



1 WEST ELEVATION

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

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SCOTTSDALE, ARIZONA 85254
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REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

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SHEET NAME:
EXTERIOR DEMOLITION ELEVATIONS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A042

LEGEND

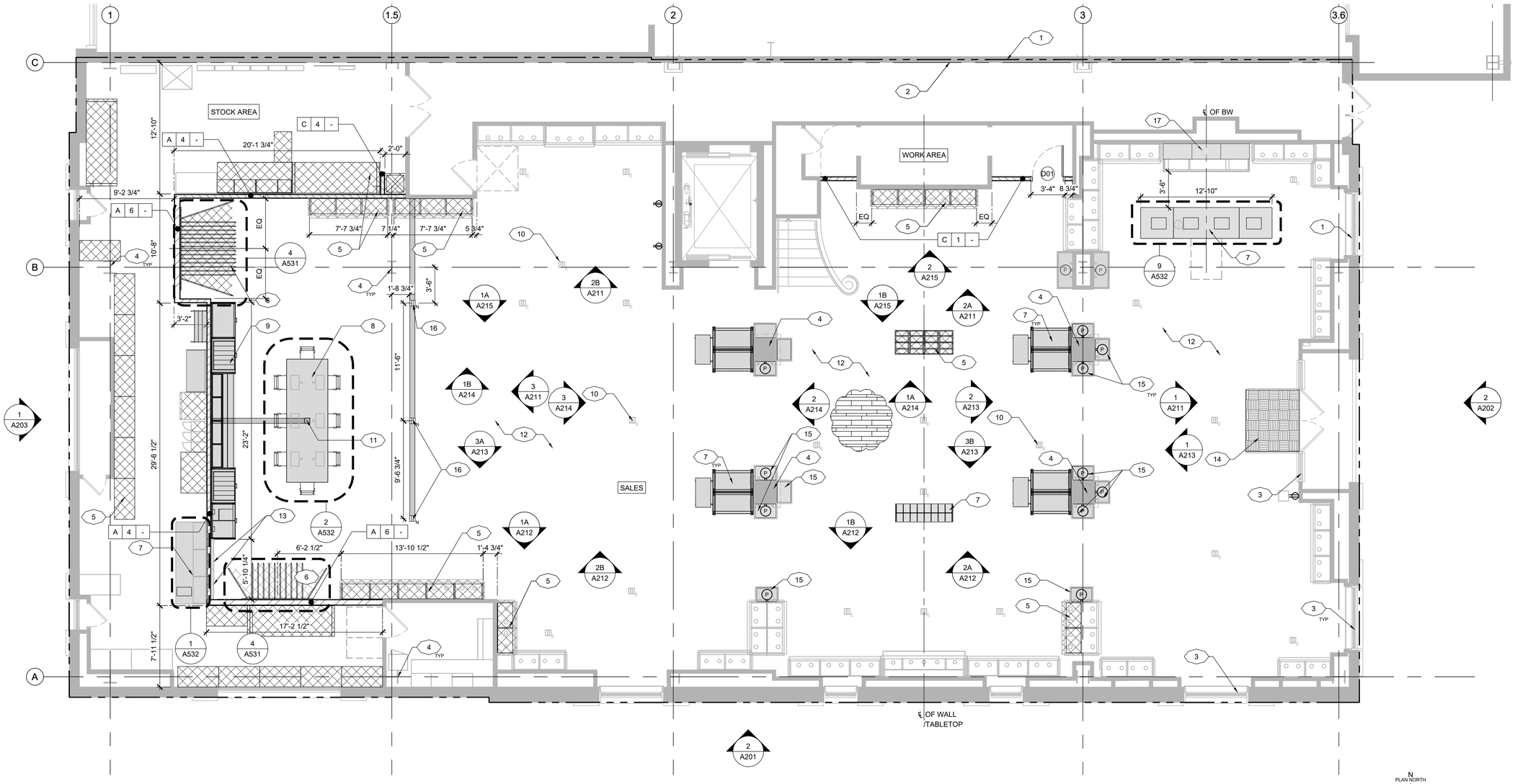
	LEASE LINE
	EXISTING WALL
	NEW WALL BY TENANT
	WOOD FLOORING
	NEW FIXTURE
	RELOCATED FIXTURE
X X -	WALL TAG; SEE WALL & PARTITION TYPES - A511
D01	DOOR TAG; SEE DOR SCHEDULE - A601
N E	NEW / EXISTING FLOOR BOX
	(N) CONDUIT STUB-UP

KEY NOTES

1. LEASE LINE
2. (E) DEMISING WALL. PATCH & REPAIR AS REQUIRED TO MAINTAIN EXISTING FIRE RATING AND ACCEPT NEW FINISHES.
3. (E) STOREFRONT TO REMAIN; PROTECT DURING CONSTRUCTION.
4. (E) COLUMN TO REMAIN. PROTECT DURING CONSTRUCTION. PAINT [W-1] IN SALES AREA.
5. RELOCATED FIXTURE, REFER TO FIXTURE PLAN.
6. RELOCATED FLIPPERS; REFER TO DETAILS FOR ADDED SUPPORT.
7. (N) MILLWORK FIXTURE , REFER TO FIXTURE PLAN.
8. (N) CONSULT TABLE W/ WED STATIONS; ELECTRICIAN TO PROVIDE 1" CONDUIT FOR EACH STATION + 1 EXTRA (7 TOTAL), PULLED FROM EXISTING TELEPHONE BACKBOARD; REFER TO ELECTRICAL DRAWINGS.
9. (N) DESIGN RESOURCE WALL; ELECTRICIAN TO PROVIDE (2) 1" CONDUITS, PULLED FROM EXISTING TELEPHONE BACKBOARD; PROVIDE (2) IG OUTLETS, (1) DATA OUTLET AND (1) VOICE OUTLET FOR PRINTER/POS; REFER TO ELECTRICAL DRAWINGS.
10. (E) RECESSED FLOOR BOXES.
11. (N) CONDUIT STUB-UP; REFER TO FINISH PLAN FOR DIMENSION AND TRENCHING REQUIREMENTS.
12. REFINISH (E) WOOD FLOOR THROUGHOUT SALES AREA.
13. (N) ROD PANELS, 35"x92", MOUNTED AT 20" AFF.
14. (N) ENTRY MAT IN EXISTING LOCATION; SEE FINISH SCHEDULE FOR SPECIFICATION.
15. (N) WATERFALL SHELVES; REUSE (E) STANDARDS.
16. (N) LEGRAND RFB4 FLOOR BOX WITH BRONZE COVER PLATE + TRENCHING FOR POWER LINES; REFER TO ELECTRICAL DRAWINGS.
17. (N) WOOD BW PANEL WITH RECESSED STANDARDS AND (6) SHELVES.

GENERAL NOTES

1. EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES WITH THESE DOCUMENTS.
2. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY ITEM SHOWN TO BE REMOVED THAT MAY HAVE STRUCTURAL IMPLICATIONS.
3. LANDLORD TO REMOVE AND DISPOSE OF ALL PREVIOUS TENANT'S FINISHES, CEILING, LIGHT FIXTURES, FURNITURE, FLOOR FINISHES, FIXTURES, EQUIPMENT, AND ALL IMPROVEMENTS.
4. ALL MECHANICAL DUCTWORK SUPPORT AND HVAC SHALL BE DISCONNECTED AND REMOVED BACK TO THE DEMISING WALLS BY LANDLORD.
5. LANDLORD TO REMOVE ALL ABANDONED ELECTRICAL WIRING AND CONDUIT BACK TO THE EXISTING PANEL WITHIN THE PREMISES.
6. LANDLORD TO CUT AND CAP ALL ABANDONED PLUMBING OR DRAIN LINES BEYOND DEMISING FLOOR, CEILING AND WALLS.
7. LANDLORD TO PROPERLY FILL ALL PENETRATIONS IN THE DEMISING WALLS, CEILING AND/OR FLOOR.
8. LANDLORD TO ARRANGE AND PAY FOR DISCONNECTING OF ALL UTILITY SERVICES.



1 FLOOR PLAN - FIRST FLOOR

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

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SCOTTSDALE, ARIZONA 85254
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SCOTTSDALE, AZ 85254

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SHEET NAME:
FIRST FLOOR CONSTRUCTION PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A101

LEGEND

	LEASE LINE
	EXISTING WALL
	NEW WALL BY TENANT
	WOOD FLOORING
	NEW FIXTURE
	RELOCATED FIXTURE
X X -	WALL TAG; SEE WALL & PARTITION TYPES - A511
D01	DOOR TAG; SEE DOR SCHEDULE - A601
N E	NEW / EXISTING FLOOR BOX
	(N) CONDUIT STUB-UP

KEY NOTES

1. LEASE LINE
2. (E) DEMISING WALL. PATCH & REPAIR AS REQUIRED TO MAINTAIN EXISTING FIRE RATING AND ACCEPT NEW FINISHES.
3. (E) STOREFRONT TO REMAIN; PROTECT DURING CONSTRUCTION.
4. (E) COLUMN TO REMAIN. PROTECT DURING CONSTRUCTION. PAINT [W-1] IN SALES AREA.
5. RELOCATED FIXTURE, REFER TO FIXTURE PLAN.
6. (N) WATERFALL SHELVES; REUSE (E) STANDARDS.
7. (N) MILLWORK FIXTURE , REFER TO FIXTURE PLAN.
8. (E) RECESSED FLOOR BOXES.
9. REFINISH (E) WOOD FLOOR THROUGHOUT SALES AREA.
10. (E) RESTROOMS; DEEP CLEAN TILE, GROUT AND FIXTURES; REPAINT WALLS AND CEILINGS.
11. (N) LAVATORY
12. BID ALT: (N) LEGRAND RFB4 FLOOR BOX WITH BRONZE COVER PLATE
13. (N) DSCW IN (E) LOCATION; UTILIZE (E) POWER

GENERAL NOTES

1. EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES WITH THESE DOCUMENTS.
2. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY ITEM SHOWN TO BE REMOVED THAT MAY HAVE STRUCTURAL IMPLICATIONS.
3. LANDLORD TO REMOVE AND DISPOSE OF ALL PREVIOUS TENANT'S FINISHES, CEILING, LIGHT FIXTURES, FURNITURE, FLOOR FINISHES, FIXTURES, EQUIPMENT, AND ALL IMPROVEMENTS.
4. ALL MECHANICAL DUCTWORK SUPPORT AND HVAC SHALL BE DISCONNECTED AND REMOVED BACK TO THE DEMISING WALLS BY LANDLORD.
5. LANDLORD TO REMOVE ALL ABANDONED ELECTRICAL WIRING AND CONDUIT BACK TO THE EXISTING PANEL WITHIN THE PREMISES.
6. LANDLORD TO CUT AND CAP ALL ABANDONED PLUMBING OR DRAIN LINES BEYOND DEMISING FLOOR, CEILING AND WALLS.
7. LANDLORD TO PROPERLY FILL ALL PENETRATIONS IN THE DEMISING WALLS, CEILING AND/OR FLOOR.
8. LANDLORD TO ARRANGE AND PAY FOR DISCONNECTING OF ALL UTILITY SERVICES.

RESTROOM 01
RESTROOM VESTIBULE
RESTROOM 02
STOCK AREA
SALES
ECEQ
3'-3 1/2" EQ
7'-7 1/4"
3'-3 1/2" EQ
4'-2"
6'-0"
1'-10 1/4"
10'-7 3/4" V.I.F
11'-1" V.I.F
2'-2 1/4"
9'-9"
2'-3 1/2"
2'-9 1/2" V.I.F.
2'-3 1/2"
1'-1 1/4"
1'-1 1/2"
℄ OF WALL / DESIGN STUDIO

1 FLOOR PLAN - SECOND FLOOR

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

N PLAN NORTH

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.: 651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT CERTIFICATE NO 49829 ZACHARY B. SHIRK Date Signed 01/13/2022 ARIZONA U.S.A. Expires 6/30/2024

FIELD VERIFICATION:
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SHEET NAME: SECOND FLOOR CONSTRUCTION PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: A102

LEGEND

	LEASE LINE
	EXISTING WALL
	NEW WALL BY TENANT
	BLOCKING

KEY NOTES

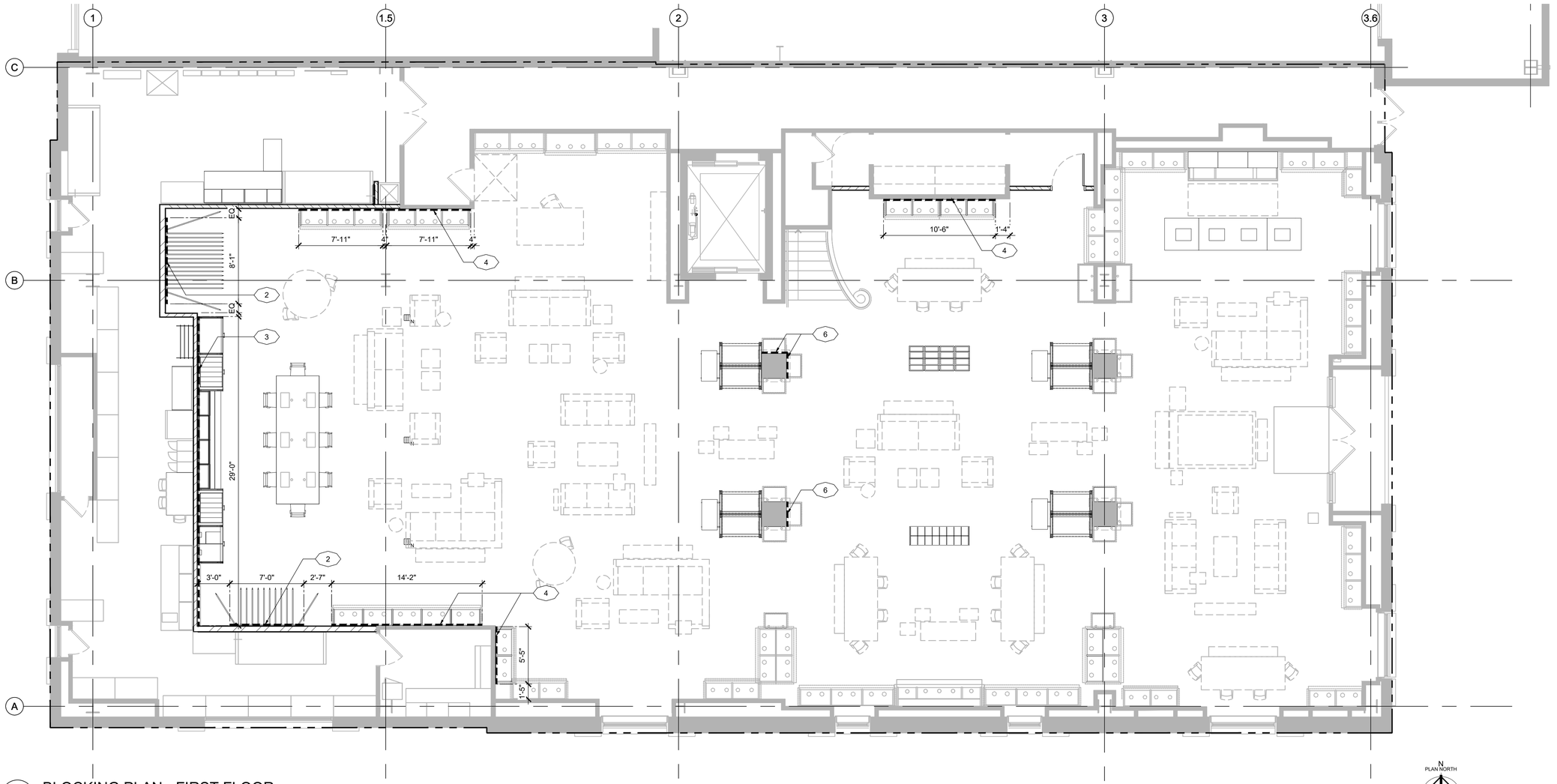
1. UNISTRUT BETWEEN JOISTS ABOVE (E) GWB CEILING TO SUPPORT (N) LIGHTING GRIDS.
2. IN-WALL STRUCTURAL STUDS AND BLOCKING PER FLIPPER SUPPORT DETAILS.
3. 3/4" FIRE TREATED PLYWOOD INSERTED BETWEEN STUDS FROM 9'-6" TO 11'-6" AFF.
4. 3/4" FIRE TREATED PLYWOOD INSERTED BETWEEN STUDS 6'-6" TO 8'-6" AFF.
5. 3/4" FIRE TREATED PLYWOOD INSERTED BETWEEN STUDS 9'-0" TO 11'-0" AFF.
6. 3/4" FIRE TREATED PLYWOOD INSERTED BETWEEN STUDS 2'-0" TO 10'-0" AFF.

SHEET NOTES

6. DO NOT SCALE DRAWINGS FOR CONSTRUCTION DIMENSIONS OR TOLERANCES. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. REQUEST CLARIFICATION IN WRITING PRIOR TO PROCEEDING.
7. COORDINATE DIMENSIONS ON PLANS AND VERIFY ALL DIMENSIONS BY MEASUREMENTS TAKEN AT THE JOB SITE. TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND/OR PERFORM THE WORK PROPERLY. REPORT DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
8. DIMENSIONS ARE TO THE FACE OF FINISH OR CENTERLINE OF GRID UNLESS NOTED OTHERWISE.
9. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORKS SO AS TO BE SUITABLE FOR IT'S INTENDED USE AND IN CONFORMANCE WITH ALL APPLICABLE CODES, ORDINANCES AND OTHER REGULATIONS.

SHEET NOTES

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1 BLOCKING PLAN - FIRST FLOOR

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

N
PLAN NORTH

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
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POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

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SHEET NAME:
FIRST FLOOR
BLOCKING PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A111

LEGEND

——·——·——	LEASE LINE
▬▬▬	EXISTING WALL
▨	NEW WALL BY TENANT
- - - - -	BLOCKING

KEY NOTES

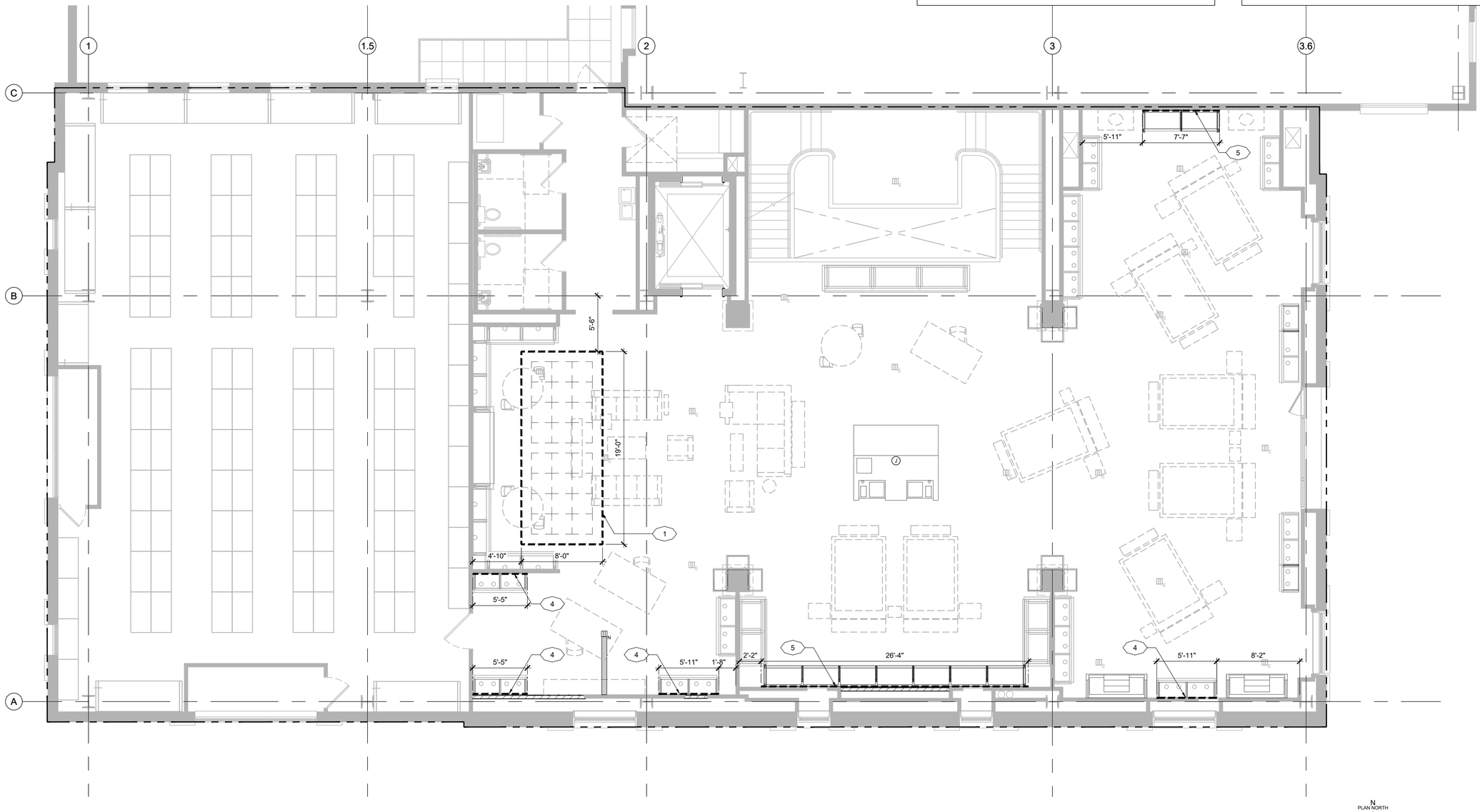
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SHEET NOTES

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8. DIMENSIONS ARE TO THE FACE OF FINISH OR CENTERLINE OF GRID UNLESS NOTED OTHERWISE.
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1 BLOCKING PLAN - SECOND FLOOR

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

N PLAN NORTH

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14614 N KIERLAND BLVD., SUITE N300
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REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
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REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

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SHEET NAME:
SECOND FLOOR BLOCKING PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A112

LEGEND

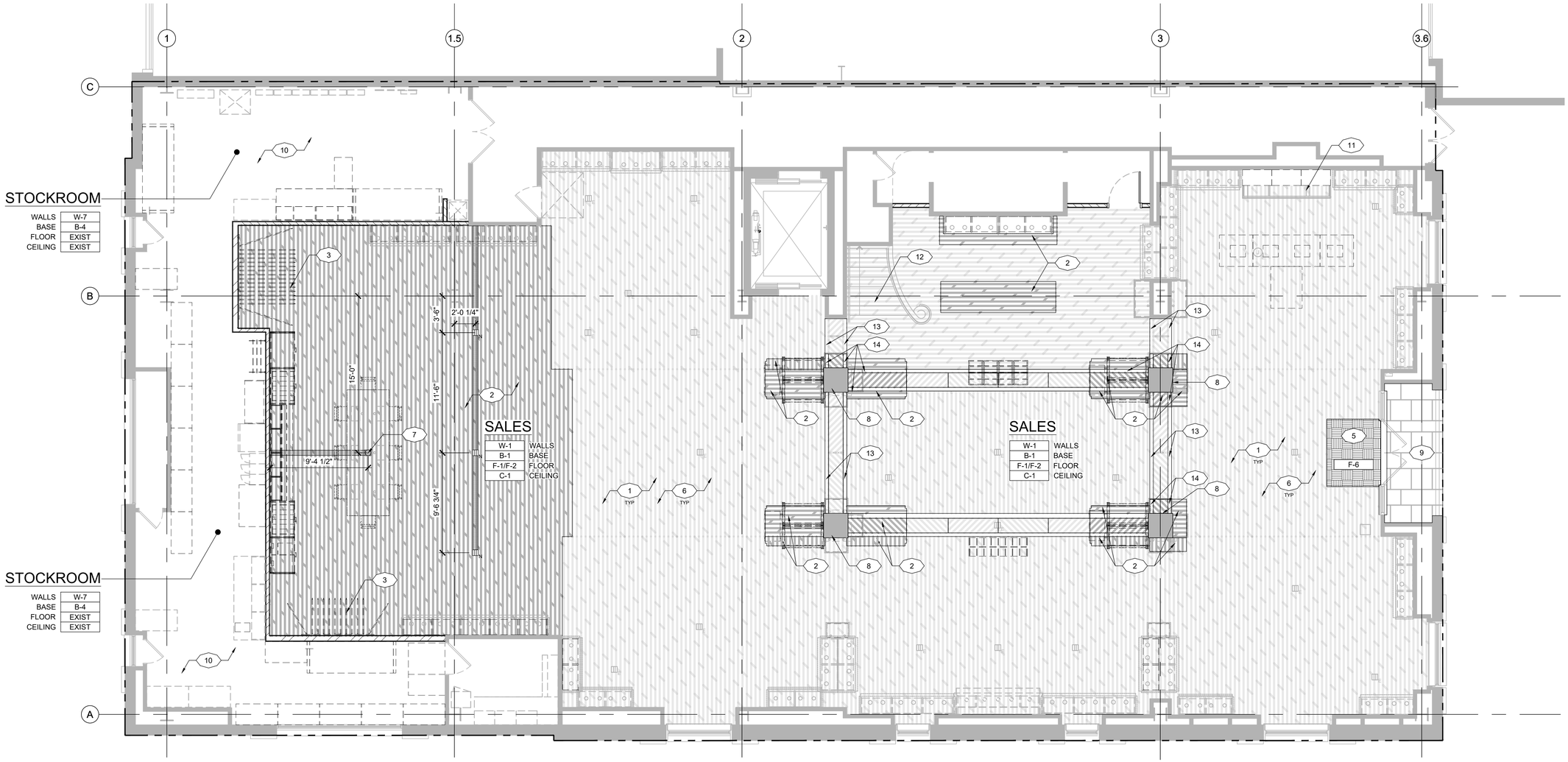
	F-1 EXISTING WOOD FLOOR
	F-2 NEW WOOD FLOOR
	F-6 WALK-OFF MAT

KEY NOTES

1. SAND EXISTING WOOD FLOOR, PATCH AND REPAIR WHERE DEMOLITION OCCURS, REFER TO FINISH SCHEDULE FOR NEW FLOORING FINISH.
2. (N) WOOD FLOORING INFILL AFTER WALL AND FIXTURE DEMOLITION. REMOVE (E) BOARDS IN EXCESS OF AREA OF INFILL AND FEATHER IN RANDOM WIDTHS / LENGTHS (2' MIN. LENGTH) TO ALLOW FOR TRANSITION BETWEEN (N) AND (E) FLOORING TO BE STAGGERED AND BLENDED TOGETHER. HATCHES ARE FOR REPRESENTATION ONLY.
3. REPAINT (R) FLIPPERS.
4. (E) RESTROOM FLOOR AND WALL TILE TO REMAIN, DEEP CLEAN AND REPAIR TO LIKE NEW CONDITION. REPAINT WALLS AND CEILING.
5. (N) WALK-OFF MAT IN (E) LOCATION.
6. PATCH (E) WALL BASE / ADD (N) AS NEEDED AFTER COMPLETION OF NEW FIXTURE LAYOUT SO THAT WALL BASE IS SO CONTINUOUS AROUND SALES AREA.
7. (N) POWER / DATA LOCATION; FLOORING TO BE REFINISHED TO MATCH EXISTING IN LOCATIONS OF TRENCHING.
8. REPAINT (E) FURRED OUT COLUMNS.
9. (E) MALL TILE TO REMAIN; CLEAN TO LIKE NEW CONDITION.
10. (E) FLOOR FINISH TO REMAIN, PATCH AND REPAIR AS NEEDED AFTER (N) WALL INSTALLATION.
11. BID ALT: (N) STONE TOP.
12. REFINISHING STAIRCASE AND RAILING; WOOD PORTIONS TO FOLLOW SPECIFICATIONS FOR WOOD FLOOR; WHITE PORTIONS TO BE REPAINTED W-3.
13. (E) WOOD FLOORING INLAY TO REMAIN.
14. (N) WOOD FLOORING INLAY TO MATCH EXISTING.

SHEET NOTES

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1 FINISH PLAN - FIRST FLOOR

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

N PLAN NORTH

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SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.: 651

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SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT CERTIFICATE NO 49829 ZACHARY B. SHIRK Date Signed 01/13/2022 ARIZONA U.S.A. Expires: 6/30/2024

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SHEET NAME: FIRST FLOOR FINISH PLAN

DATE: 1/13/22 | PROJECT NO.: 33126

DRAWN: EK | SCALE: AS NOTED

SHEET NO.: A121

LEGEND

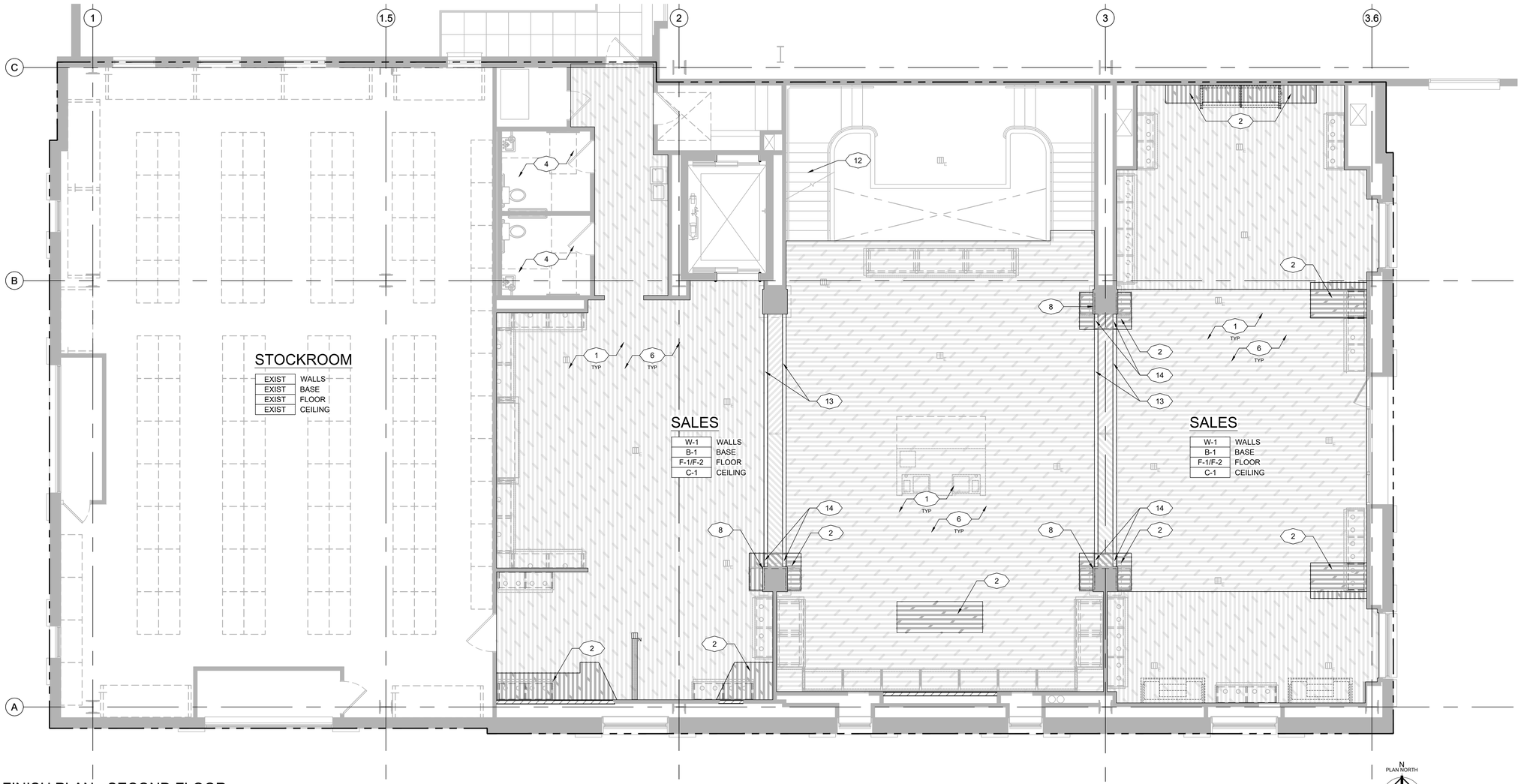
	F-1 EXISTING WOOD FLOOR
	F-2 NEW WOOD FLOOR
	F-6 WALK-OFF MAT

KEY NOTES

1. SAND EXISTING WOOD FLOOR, PATCH AND REPAIR WHERE DEMOLITION OCCURS, REFER TO FINISH SCHEDULE FOR NEW FLOORING FINISH.
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5. (N) WALK-OFF MAT IN (E) LOCATION.
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9. (E) MALL TILE TO REMAIN; CLEAN TO LIKE NEW CONDITION.
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11. BID ALT: (N) STONE TOP.
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13. (E) WOOD FLOORING INLAY TO REMAIN.
14. (N) WOOD FLOORING INLAY TO MATCH EXISTING.

SHEET NOTES

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1 FINISH PLAN - SECOND FLOOR
SCALE: 3/16" = 1'-0"

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STORE NO.: 651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO.
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

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SHEET NAME: SECOND FLOOR FINISH PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: A122

LEGEND (NEW FIXTURES)

	PD: CLASSIC PENDANT - METAL BELL, MOUNT @ 6'-6" AFF
	PB: CLIFT PENDANT, MOUNT @ 6'-6" AFF
	BUSSTRUT CEILING GRID, WHITE FINISH MOUNT @ 9'-9" AFF
	MH: 20W METAL HALIDE TRACKHEAD
	MR: MR16 30W TRACKHEAD
	FLUORESCENT STRIP LIGHT
	MR-16-50W TRACK HEAD
	MR-16-35W TRACK HEAD
	RJ GRANDVIEW DOUBLE SCONE
	EXIT SIGNS

LEGEND (EXISTING FIXTURES)

	MR-16-35W TRACK HEAD
	ACCESS PANEL
S	SPEAKER
WAP	EXISTING WIRELESS ACCESS POINT

GWB — CEILING MATERIAL
11'-6" AFF — CEILING HEIGHT
C-1 — CEILING FINISH

LEGEND (EXISTING FIXTURES)

FE	FLUORESCENT OVERHEAD LIGHT
	FLUORESCENT STRIP LIGHT
	LIGHT TRACK - SURFACE MOUNTED
	RECESSED DOWNLIGHT
	EMERGENCY LIGHTS
	EXIT SIGN
	CEILING SUPPLY AIR DIFFUSER
	CEILING RETURN AIR DIFFUSER
	SPRINKLER HEAD

KEYNOTES

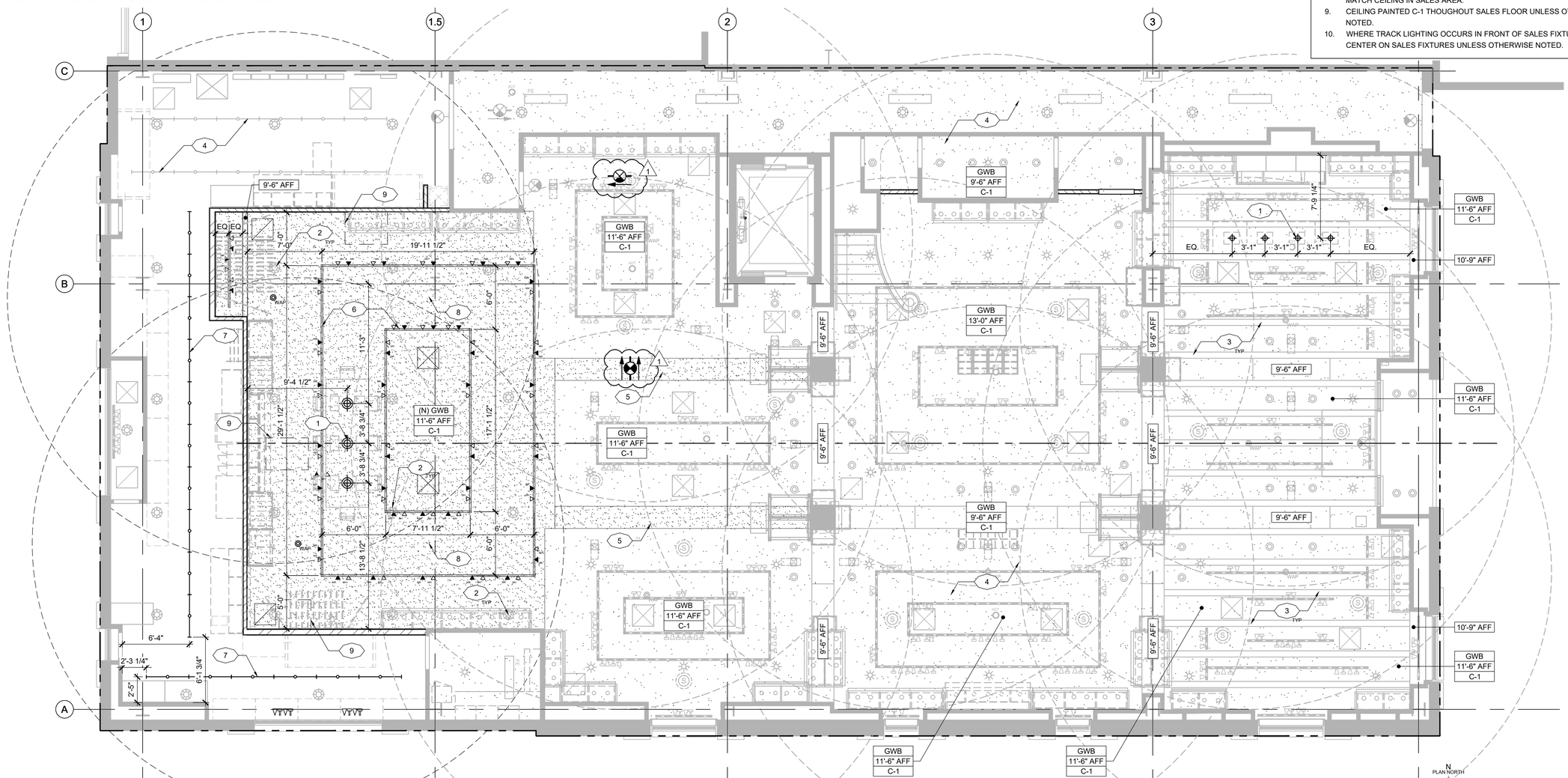
1. (N) PENDANTS, MOUNT @ 6'-6" AFF. TO B.O. FIXTURE
2. (E) SPRINKLER HEADS TO BE MODIFIED IN AREAS OF (N) CEILING.
3. DO NOT PAINT (E) BEAMS; PROTECT DURING CONSTRUCTION.
4. (E) LIGHTING TO REMAIN TO RECEIVE LED RE-LAMP.
5. INSTALL NEW CEILING WHERE DEMOLITION OCCURS.
6. (N) LIGHT TRACK - SURFACE MOUNTED, USE AS MANY RELOCATED HEADS AS POSSIBLE.
7. (E) LIGHT FIXTURES TO BE RELOCATED.
8. RELOCATE (E) WAP FROM BOH AND SURFACE MOUNT ON (N) CEILING
9. PROVIDE (N) FLUSH MOUNT ACCESS PANEL FOR HVAC UNITS; PAINT TO MATCH CEILING

LEGEND

	EXISTING CEILING
	AREA OF CEILING TO BE PATCHED & REPAIRED TO MATCH EXISTING FINISH

SHEET NOTES

1. ALL CEILING HEIGHTS INDICATED ARE FROM FINSIH FLOOR TO FINISH CEILING, UNLESS OTHERWISE NOTED, OR DETAILED.
2. ALL DIMENSIONS ARE FROM FACE TO FINISH TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
3. REFER TO ELECTRICAL DRAWINGS FOR EXACT NUMBER AND TYPE OF LIGHT FIXTURES TO BE PROVIDED. NOTIFY ARCHITECT SHOULD ANY DISCREPANCIES OCCUR.
4. COORDINATE CEILINGS WITH MECHANICAL. SEE MECHANICAL PLAN FOR LOCATIONS OF ALL DIFFUSERS, DUCTS, RETURN AIR GRILLS, SPRINKLERS AND ANY ADDITIONAL MECHANICAL EQUIPMENT.
5. SPRINKLER HEADS:
   - 5.1. IN GYPSUM BOARD CEILING:
   - A. SPRINKLER HEADS TO BE FLUSH CONCEALED TYPE WITH COVERS IN GYPSUM BOARD AREAS.
   - B. PROVIDE SPRINKLER LAYOUT, HEADS AS REQUIRED BY LANDLORD'S INSURANCE AND BY CODE.
   - C. SPRINKLER HEADS TO BE FLUSH CONCEALED TYPE WITH COVERS IN WOOD BOX BEAMS AND IN ENTRY SOFFIT. ESCUTCHEON COLOR TO BE ANTIQUE BRASS.
6. SPEAKERS: VERIFY SPEAKER QUANTITY AND LOCATIONS WITH SOUND SYSTEM CONTRACTOR.
7. ACCESS MECHANICAL AND ELECTRICAL EQUIPMENT CONCEALED BY GWB CEILING THROUGH MECHANICAL DIFFUSERS. IF ADDITIONAL ACCESS IS REQUIRED, OBTAIN OWNER APPROVAL AND PROVIDE ACCESS PANEL.
8. PAINT ALL CEILING REGISTERS, GRILLES, AND SPEAKER COVERS TO MATCH CEILING IN SALES AREA.
9. CEILING PAINTED C-1 THOUGHOUT SALES FLOOR UNLESS OTHERWISE NOTED.
10. WHERE TRACK LIGHTING OCCURS IN FRONT OF SALES FIXTURES, CENTER ON SALES FIXTURES UNLESS OTHERWISE NOTED.



1 REFLECTED CEILING PLAN - FIRST FLOOR

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

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Expires: 6/30/2024

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SHEET NAME: FIRST FLOOR REFLECTED CEILING PLAN

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: A131

LEGEND (NEW FIXTURES)

	PD: CLASSIC PENDANT - METAL BELL, MOUNT @ 6'-6" AFF
	PB: CLIFT PENDANT, MOUNT @ 6'-6" AFF
	BUSSTRUT CEILING GRID, WHITE FINISH MOUNT @ 9'-9" AFF
	MH: 20W METAL HALIDE TRACKHEAD
	MR: MR16 30W TRACKHEAD
	FLUORESCENT STRIP LIGHT
	MR-16-50W TRACK HEAD
	MR-16-35W TRACK HEAD
	RJ GRANDVIEW DOUBLE SCONE

LEGEND (EXISTING FIXTURES)

	MR-16-35W TRACK HEAD
	ACCESS PANEL
S	SPEAKER
WAP	EXISTING WIRELESS ACCESS POINT

GWB — CEILING MATERIAL
11'-6" AFF — CEILING HEIGHT
C-1 — CEILING FINISH

LEGEND (EXISTING FIXTURES)

FE	FLUORESCENT OVERHEAD LIGHT
	FLUORESCENT STRIP LIGHT
	LIGHT TRACK - SURFACE MOUNTED
	RECESSED DOWNLIGHT
	EMERGENCY LIGHTS
	EXIT SIGN
X	CEILING SUPPLY AIR DIFFUSER
	CEILING RETURN AIR DIFFUSER
	SPRINKLER HEAD

KEYNOTES

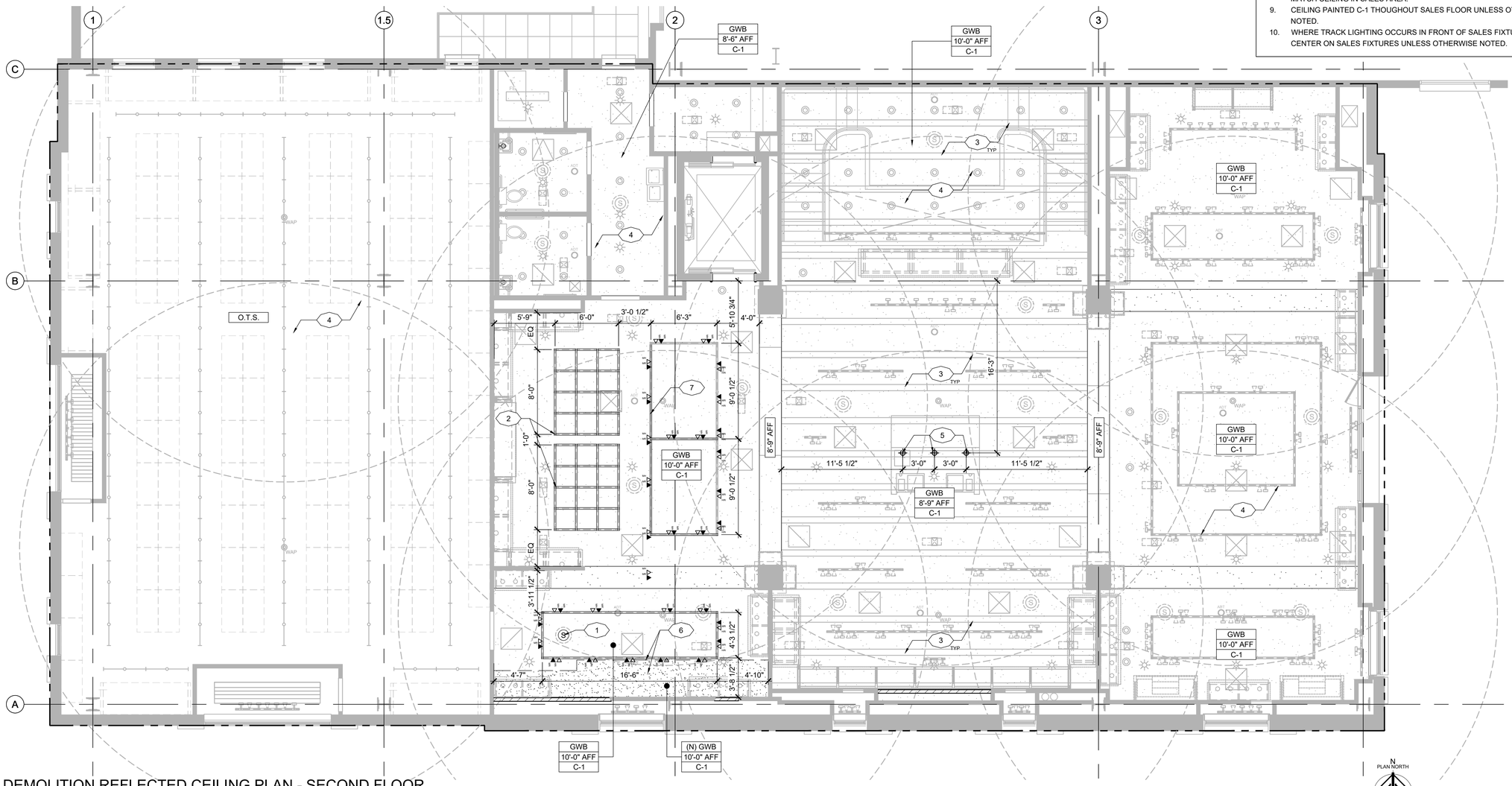
1. (E) SPEAKER TO BE RELOCATED.
2. (N) BUSSTRUT LIGHTING GRID, WHITE FINISH, MOUNTED @ 9'-9".
3. DO NOT PAINT (E) BEAMS; PROTECT DURING CONSTRUCTION.
4. (E) LIGHTING TO REMAIN TO RECEIVE LED RE-LAMP.
5. (N) PENDANT LIGHTS MOUNTED @ 6'-6" AFF. TO B.O. FIXTURE.
6. PATCH/REPAIR CEILING/SOFFIT WHERE WALLS ARE REMOVED.
7. (N) LIGHT TRACK - SURFACE MOUNTED; USE AS MANY RELOCATED HEADS AS POSSIBLE.

LEGEND

	EXISTING CEILING
	AREA OF CEILING TO BE PATCHED & REPAIR TO MATCH EXISTING FINISH

SHEET NOTES

1. ALL CEILING HEIGHTS INDICATED ARE FROM FINSIH FLOOR TO FINISH CEILING, UNLESS OTHERWISE NOTED, OR DETAILED.
2. ALL DIMENSIONS ARE FROM FACE TO FINISH TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
3. REFER TO ELECTRICAL DRAWINGS FOR EXACT NUMBER AND TYPE OF LIGHT FIXTURES TO BE PROVIDED. NOTIFY ARCHITECT SHOULD ANY DISCREPANCIES OCCUR.
4. COORDINATE CEILINGS WITH MECHANICAL. SEE MECHANICAL PLAN FOR LOCATIONS OF ALL DIFFUSERS, DUCTS, RETURN AIR GRILLS, SPRINKLERS AND ANY ADDITIONAL MECHANICAL EQUIPMENT.
5. SPRINKLER HEADS:
   5.1. IN GYPSUM BOARD CEILING:
   A. SPRINKLER HEADS TO BE FLUSH CONCEALED TYPE WITH COVERS IN GYPSUM BOARD AREAS.
   B. PROVIDE SPRINKLER LAYOUT, HEADS AS REQUIRED BY LANDLORD'S INSURANCE AND BY CODE.
   C. SPRINKLER HEADS TO BE FLUSH CONCEALED TYPE WITH COVERS IN WOOD BOX BEAMS AND IN ENTRY SOFFIT. ESCUTCHEON COLOR TO BE ANTIQUE BRASS.
6. SPEAKERS: VERIFY SPEAKER QUANTITY AND LOCATIONS WITH SOUND SYSTEM CONTRACTOR.
7. ACCESS MECHANICAL AND ELECTRICAL EQUIPMENT CONCEALED BY GWB CEILING THROUGH MECHANICAL DIFFUSERS. IF ADDITIONAL ACCESS IS REQUIRED, OBTAIN OWNER APPROVAL AND PROVIDE ACCESS PANEL.
8. PAINT ALL CEILING REGISTERS, GRILLES, AND SPEAKER COVERS TO MATCH CEILING IN SALES AREA.
9. CEILING PAINTED C-1 THOUGHOUT SALES FLOOR UNLESS OTHERWISE NOTED.
10. WHERE TRACK LIGHTING OCCURS IN FRONT OF SALES FIXTURES, CENTER ON SALES FIXTURES UNLESS OTHERWISE NOTED.



1 DEMOLITION REFLECTED CEILING PLAN - SECOND FLOOR

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

N PLAN NORTH

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.: 651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT CERTIFICATE NO. 49829 ZACHARY B. SHIRK Date Signed 01/13/2022 ARIZONA U.S.A. Expires: 6/30/2024

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SHEET NAME: SECOND FLOOR REFLECTED CEILING PLAN

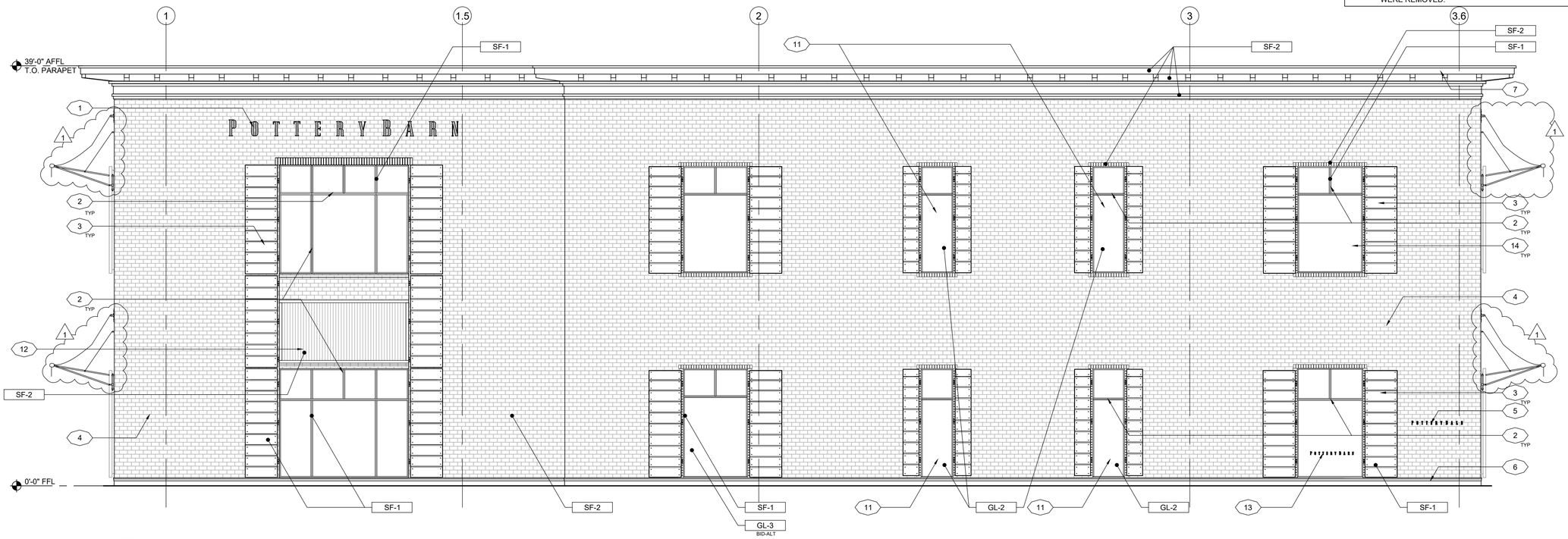
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: A132

CODE	MANUFACTURER / CONTACT	TYPE / COLOR	REMARKS
		STOREFRONT	
SF-1: STOREFRONT SYSTEM PAINT	BENJAMIN MOORE AURA EXTERIOR	2133-10 ONYX AURA 631-4X, SATIN FINISH	SPRAY APPLIED TO EXISTING STOREFRONT SYSTEM, INTERIOR AND EXTERIOR; FILL ANY HOLES; BRUSH APPLY ON WOOD SHUTTERS
SF-2: STOREFRONT FACADE PAINT	BENJAMIN MOORE AURA EXTERIOR	FOG MIST OC-31, LRV 71.6, SATIN FINISH (1)	SPRAY APPLY TO BRICK, CORNICE, CAP, AND WOOD SPANDREL
GL-2: WINDOW FILM	3M	MILKY MILKY	APPLY TO INTERIOR OF GLASS
GL-3: (BID ALT) SOLAR FILM	3M	PRESTIGE 70	APPLY TO INTERIOR OF GLASS
AW-1: (BID ALT) AWNING FABRIC (1)	SUNBRELLA	SLATE	

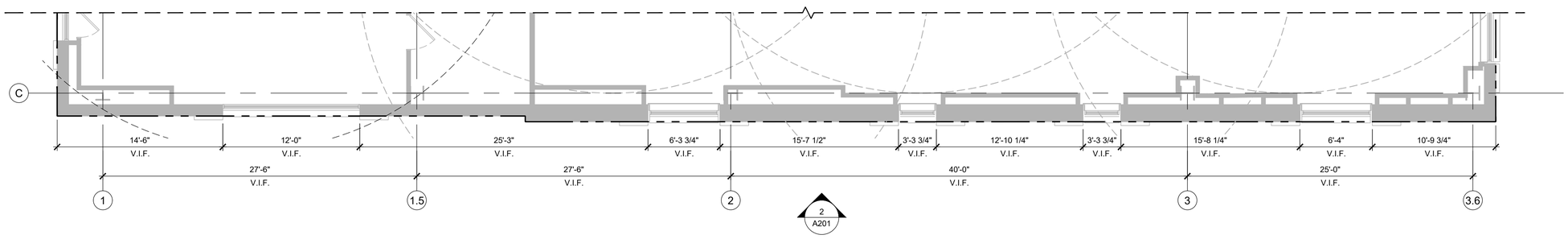
KEY NOTES

1. (E) HALO-LIT BUILDING MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
2. (E) STOREFRONT SYSTEM TO BE REPAINTED.
3. (E) WOOD SHUTTERS TO BE REFINISHED & REPAINTED.
4. (E) BRICK FINISH TO BE REPAINTED. PATCH AND REPAIR BRICK FINISH AFTER AWNING REMOVAL, PRIOR TO PAINTING.
5. (E) PIN-MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
6. (E) STONE BASE TO REMAIN; CLEAN AND REPAIR TO LIKE NEW CONDITION; REPLACE ANY MISSING GROUT.
7. (E) CORNICE AND CAP TO BE REPAINTED.
8. (E) RAILING TO BE PAINTED TO MATCH STOREFRONT.
9. (E) NON-ILLUMINATED BEAM MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
10. (E) BEAM TO BE REPAINTED TO MATCH STOREFRONT.
11. BID ALT: (E) AWNING FRAME TO REMAIN; REPAINT SF-1. REPLACE AWNING FABRIC WITH AW-1.
12. ADD 3M FILM " MILKY MILKY" TO INTERIOR SIDE OF STOREFRONT.
13. (E) WOOD SPANDREL TO BE REPAINTED.
14. (E) "POTTERY BARN" VINYL SIGN TO BE REPLACED; (N) SIGN IN SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
15. BID ALT: APPLY GL-3 SOLAR FILM TO ALL WINDOWS WHERE AWNINGS WERE REMOVED.



2 SOUTH ELEVATION

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



1 STOREFRONT PLAN - SOUTH

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

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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POTTERY BARN

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15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires 6/30/2024

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SHEET NAME: EXTERIOR ELEVATIONS

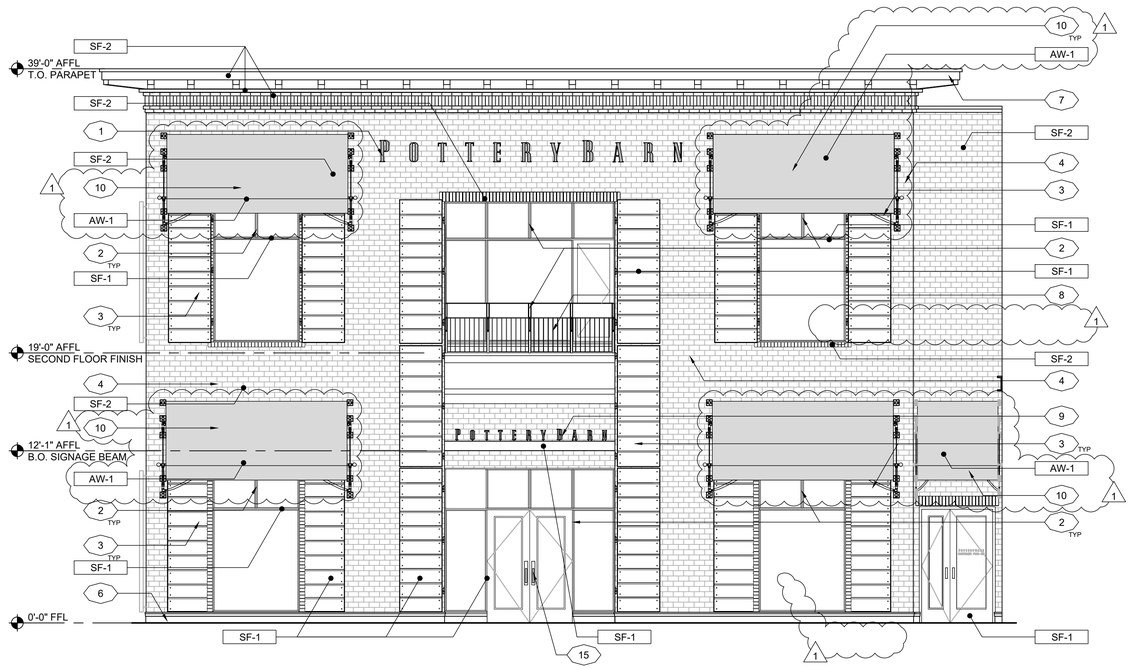
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: A201

CODE	MANUFACTURER / CONTACT	TYPE / COLOR	REMARKS
		STOREFRONT	
SF-1: STOREFRONT SYSTEM PAINT	BENJAMIN MOORE AURA EXTERIOR	2133-10 ONYX AURA 631-4X, SATIN FINISH	SPRAY APPLIED TO EXISTING STOREFRONT SYSTEM, INTERIOR AND EXTERIOR; FILL ANY HOLES; BRUSH APPLY ON WOOD SHUTTERS
SF-2: STOREFRONT FACADE PAINT	BENJAMIN MOORE AURA EXTERIOR	FOG MIST OC-31, LRV 71.6, SATIN FINISH 1	SPRAY APPLY TO BRICK, CORNICE, CAP, AND WOOD SPANDREL
GL-2: WINDOW FILM	3M	MILKY MILKY	APPLY TO INTERIOR OF GLASS
GL-3: (BID ALT) SOLAR FILM	3M	PRESTIGE 70	APPLY TO INTERIOR OF GLASS
AW-1: (BID ALT) AWNING FABRIC 1	SUNBRELLA	SLATE	

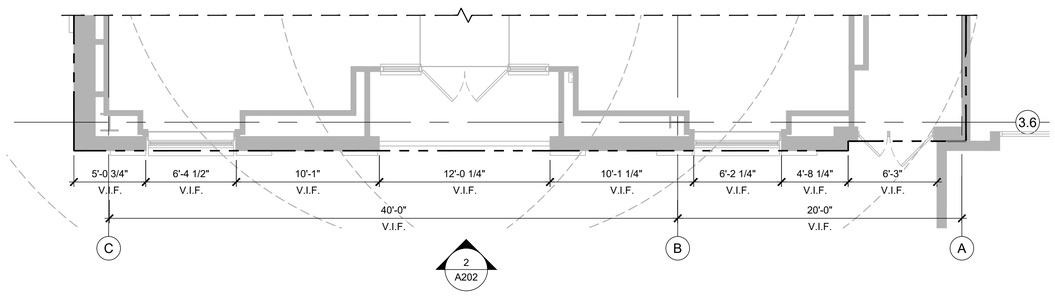
KEY NOTES

1. (E) HALO-LIT BUILDING MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. 1
2. (E) STOREFRONT SYSTEM TO BE REPAINTED.
3. (E) WOOD SHUTTERS TO BE REFINISHED & REPAINTED.
4. (E) BRICK FINISH TO BE REPAINTED. PATCH AND REPAIR BRICK FINISH AFTER AWNING REMOVAL, PRIOR TO PAINTING.
5. (E) PIN-MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. 1
6. (E) STONE BASE TO REMAIN; CLEAN AND REPAIR TO LIKE NEW CONDITION; REPLACE ANY MISSING GROUT.
7. (E) CORNICE AND CAP TO BE REPAINTED.
8. (E) RAILING TO BE PAINTED TO MATCH STOREFRONT.
9. (E) NON-ILLUMINATED BEAM MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. 1 1 1
10. (E) BEAM TO BE REPAINTED TO MATCH STOREFRONT.
11. BID ALT: (E) AWNING FRAME TO REMAIN; REPAINT SF-1. REPLACE AWNING FABRIC WITH AW-1.
12. ADD 3M FILM " MILKY MILKY" TO INTERIOR SIDE OF STOREFRONT.
13. (E) WOOD SPANDREL TO BE REPAINTED.
14. (E) "POTTERY BARN" VINYL SIGN TO BE REPLACED; (N) SIGN IN SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. 1
15. BID ALT: APPLY GL-3 SOLAR FILM TO ALL WINDOWS WHERE AWNINGS WERE REMOVED.
16. (N) ASHLEY NORTON DOOR PULLS.



2 EAST ELEVATION

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



1 STOREFRONT PLAN - EAST

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

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SCOTTSDALE, ARIZONA 85254
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POTTERY BARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO.
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ZACHARY B. SHIRK
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ARIZONA U.S.A.
Expires: 6/30/2024

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SHEET NAME:
EXTERIOR ELEVATIONS

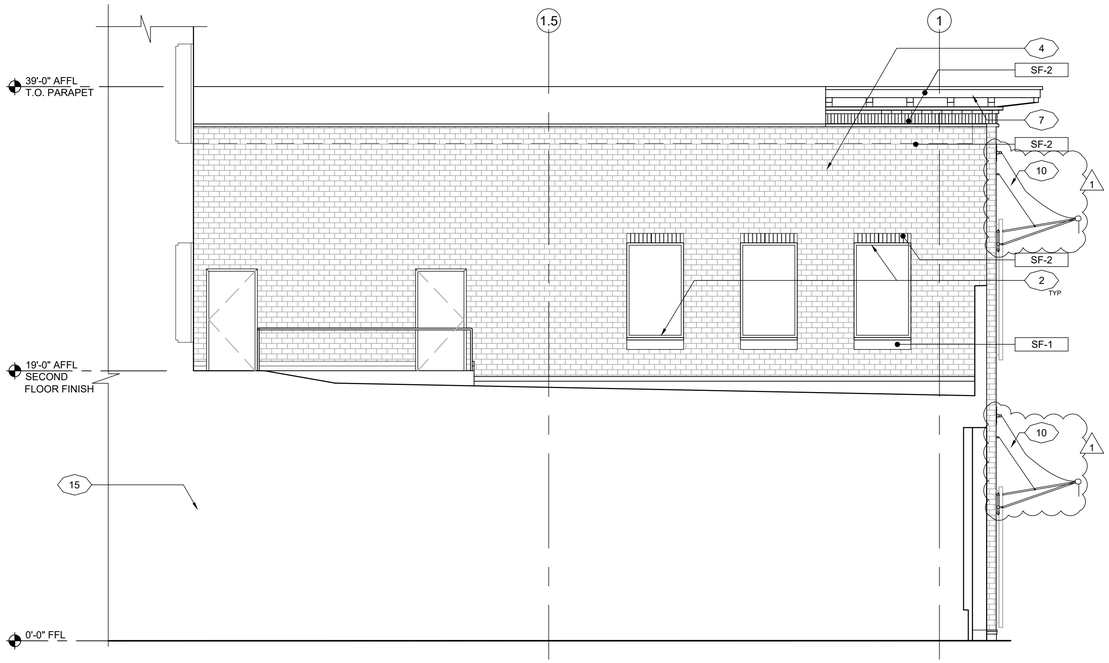
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A202

CODE	MANUFACTURER / CONTACT	TYPE / COLOR	REMARKS
		STOREFRONT	
SF-1: STOREFRONT SYSTEM PAINT	BENJAMIN MOORE AURA EXTERIOR	2133-10 ONYX AURA 631-4X, SATIN FINISH	SPRAY APPLIED TO EXISTING STOREFRONT SYSTEM, INTERIOR AND EXTERIOR; FILL ANY HOLES; BRUSH APPLY ON WOOD SHUTTERS
SF-2: STOREFRONT FACADE PAINT	BENJAMIN MOORE AURA EXTERIOR	FOG MIST OC-31, LRV 71.6, SATIN FINISH (1)	SPRAY APPLY TO BRICK, CORNICE, CAP, AND WOOD SPANDREL
GL-2: WINDOW FILM	3M	MILKY MILKY	APPLY TO INTERIOR OF GLASS
GL-3: (BID ALT) SOLAR FILM	3M	PRESTIGE 70	APPLY TO INTERIOR OF GLASS
AW-1: (BID ALT) AWNING FABRIC (1)	SUNBRELLA	SLATE	

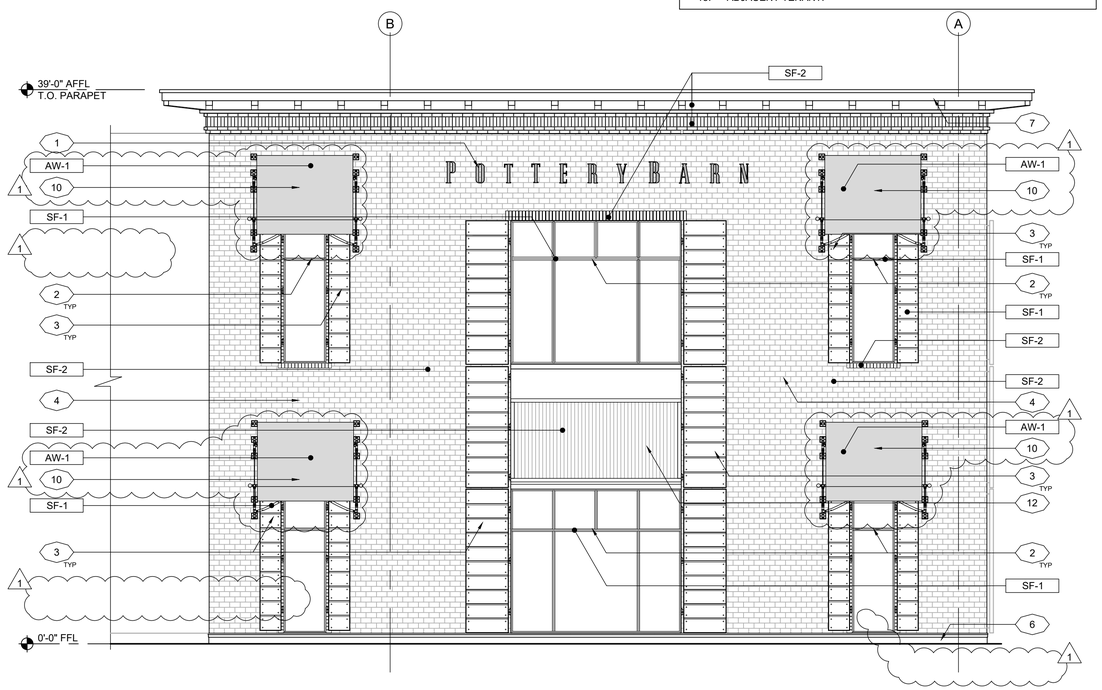
KEY NOTES

1. (E) HALO-LIT BUILDING MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
2. (E) STOREFRONT SYSTEM TO BE REPAINTED.
3. (E) WOOD SHUTTERS TO BE REFINISHED & REPAINTED.
4. (E) BRICK FINISH TO BE REPAINTED. PATCH AND REPAIR BRICK FINISH AFTER AWNING REMOVAL, PRIOR TO PAINTING.
5. (E) PIN-MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
6. (E) STONE BASE TO REMAIN; CLEAN AND REPAIR TO LIKE NEW CONDITION; REPLACE ANY MISSING GROUT.
7. (E) CORNICE AND CAP TO BE REPAINTED.
8. (E) RAILING TO BE PAINTED TO MATCH STOREFRONT.
9. (E) NON-ILLUMINATED BEAM MOUNTED SIGN TO BE REPLACED; (N) SIGN IN THE SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
10. (E) BEAM TO BE REPAINTED TO MATCH STOREFRONT.
11. BID ALT: (E) AWNING FRAME TO REMAIN; REPAINT SF-1. REPLACE AWNING FABRIC WITH AW-1.
12. ADD 3M FILM " MILKY MILKY" TO INTERIOR SIDE OF STOREFRONT.
13. (E) WOOD SPANDREL TO BE REPAINTED.
14. (E) "POTTERY BARN" VINYL SIGN TO BE REPLACED; (N) SIGN IN SAME LOCATION AND TO BE UNDER SEPARATE PERMIT. (1)
15. BID ALT: APPLY GL-3 SOLAR FILM TO ALL WINDOWS WHERE AWNINGS WERE REMOVED.
16. ADJACENT TENANT.



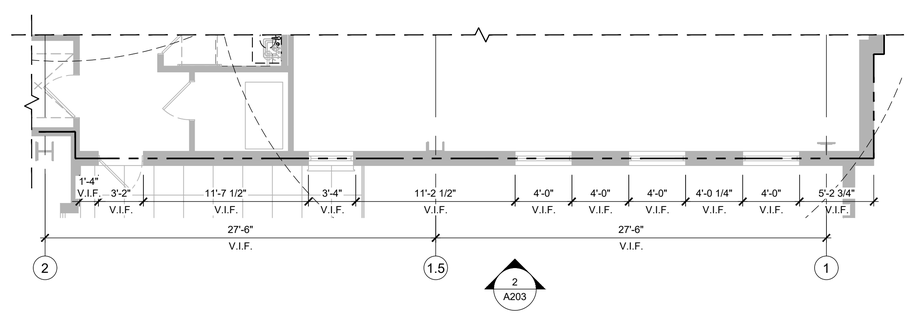
2 NORTH ELEVATION

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



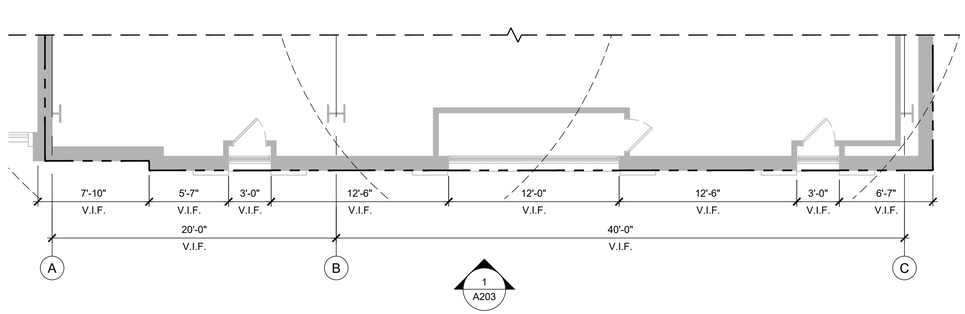
1 WEST ELEVATION

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



4 STOREFRONT PLAN - NORTH

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



3 STOREFRONT PLAN - WEST

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

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SCOTTSDALE, ARIZONA 85254
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STORE NO.:
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POTTERY BARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

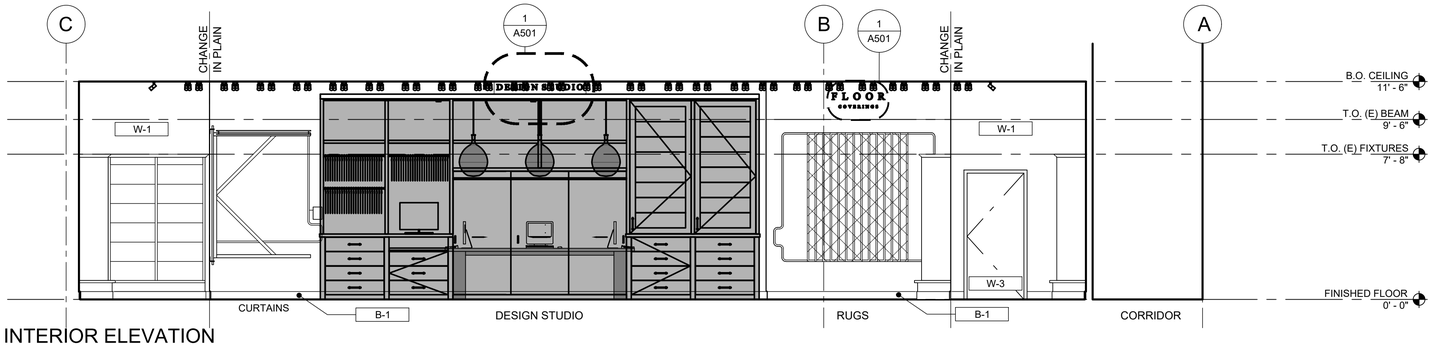
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SHEET NAME:
EXTERIOR ELEVATIONS

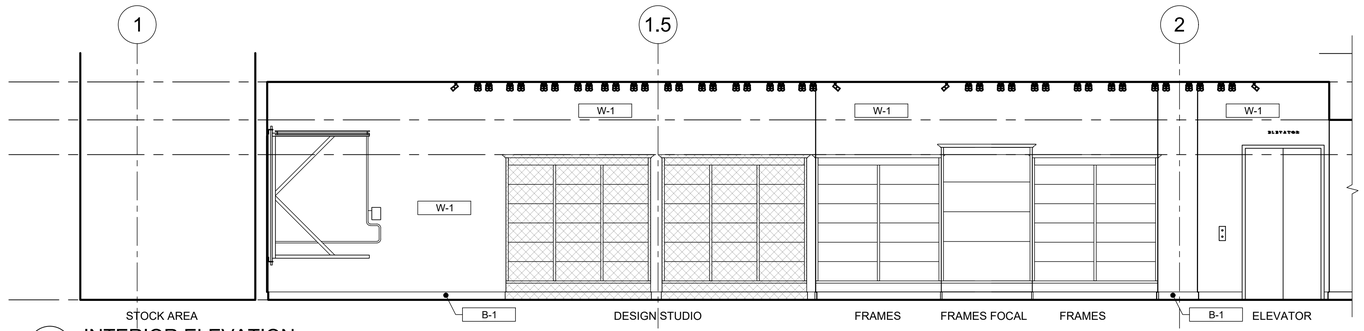
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A203



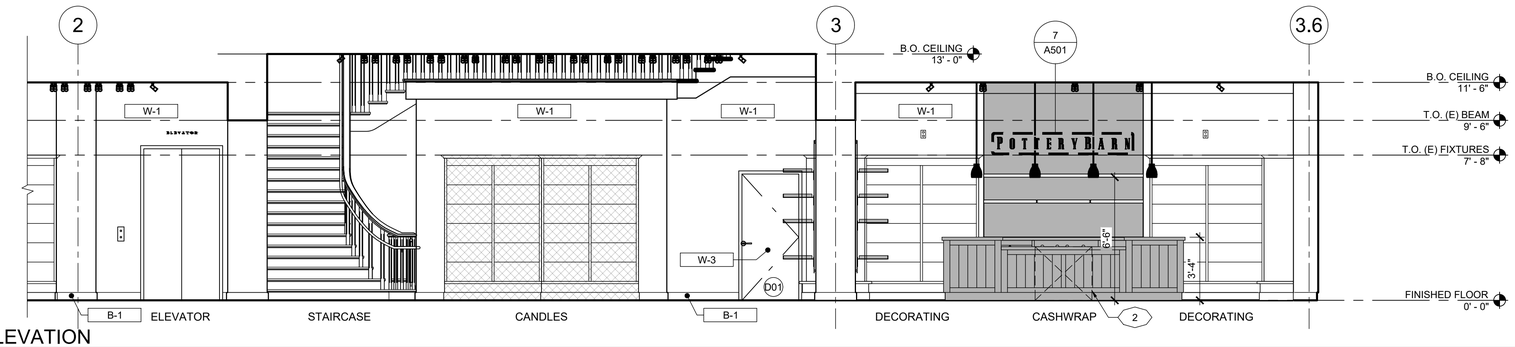
3 INTERIOR ELEVATION

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



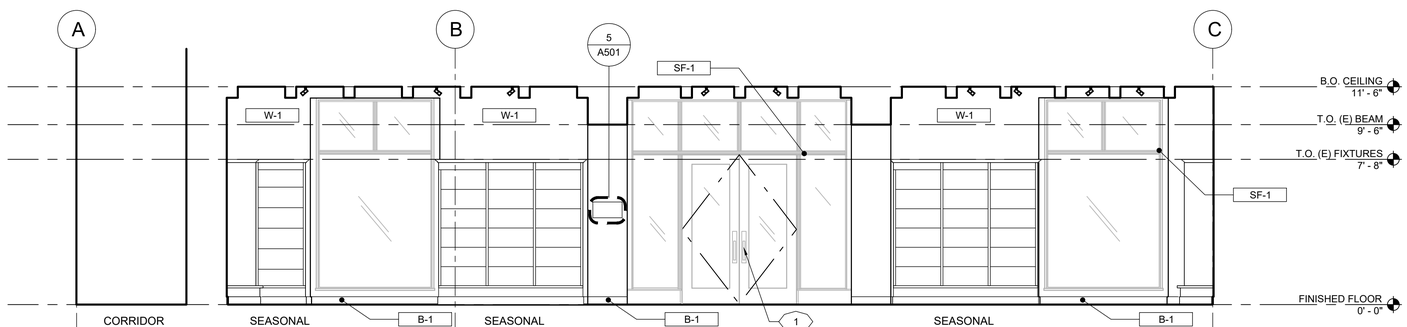
2B INTERIOR ELEVATION

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



2A INTERIOR ELEVATION

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



1 INTERIOR ELEVATION

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

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

KEY NOTES

1. (N) ASHLEY NORTON DOOR PULLS.
2. ACCESSIBLE COUNTER AREA.

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
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REVISIONS

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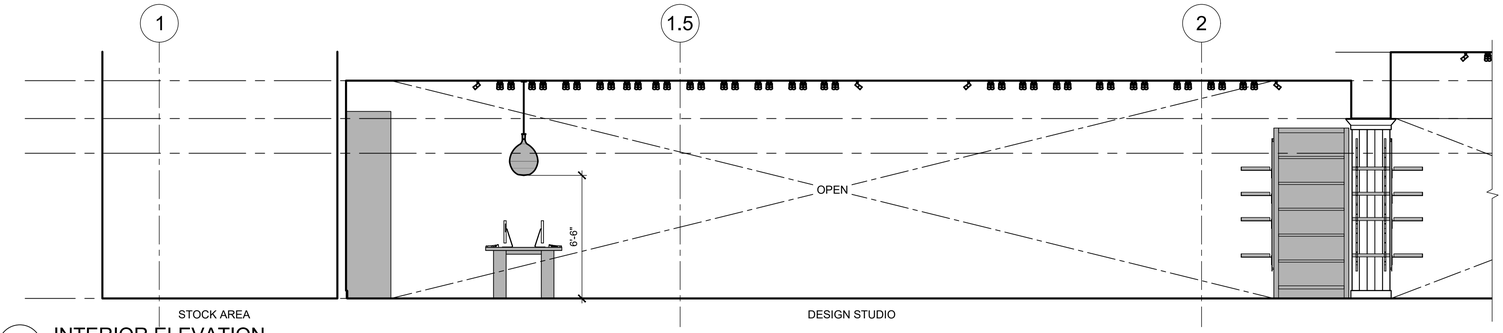
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SHEET NAME:
FIRST FLOOR
INTERIOR ELEVATIONS

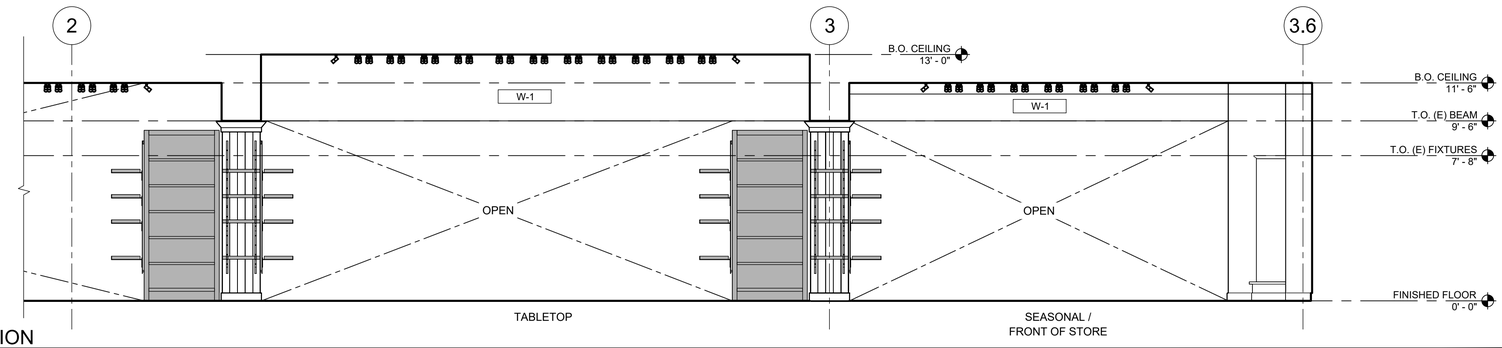
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A211



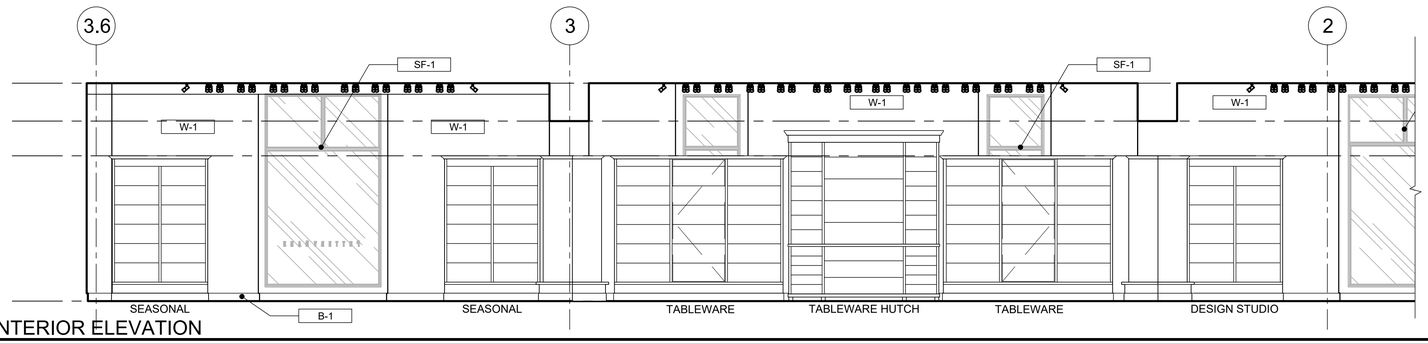
2B INTERIOR ELEVATION

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



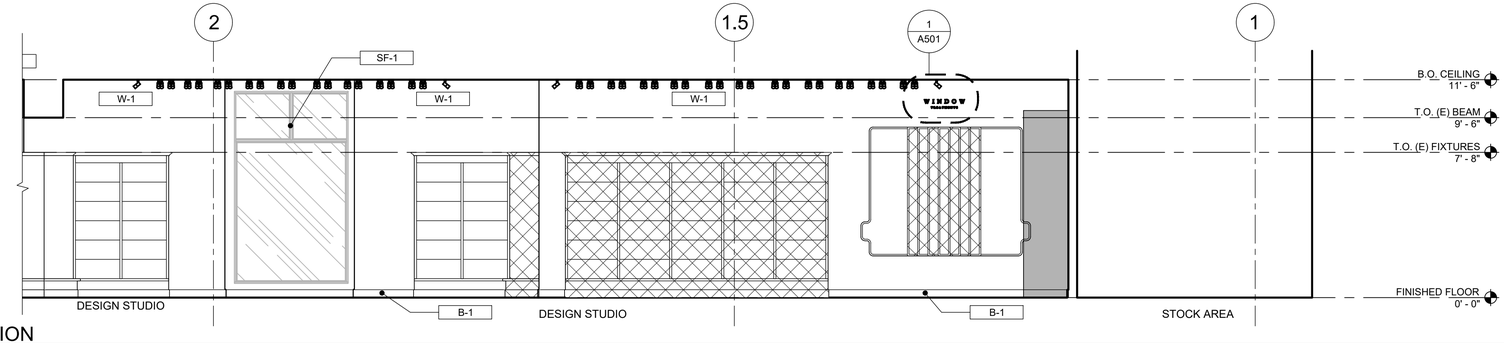
2A INTERIOR ELEVATION

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



1B INTERIOR ELEVATION

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



1A INTERIOR ELEVATION

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

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO.
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

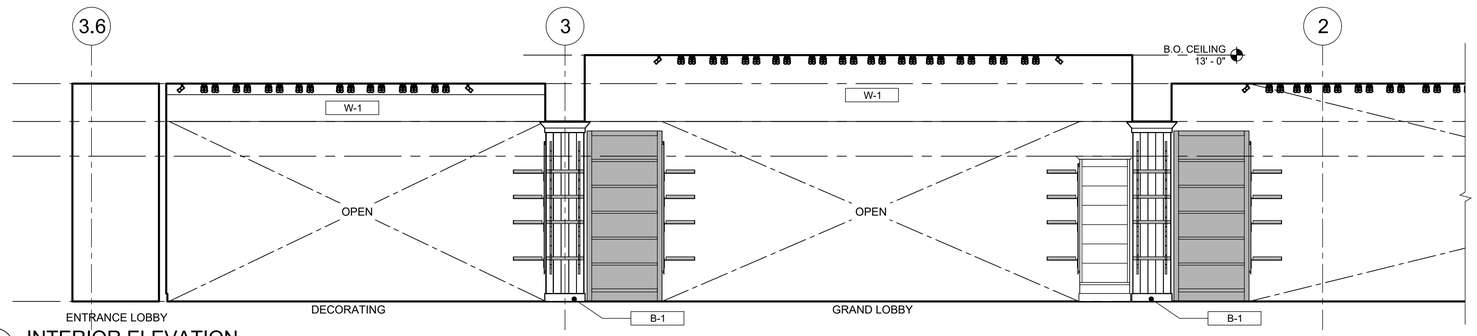
FIELD VERIFICATION:
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SHEET NAME:
FIRST FLOOR
INTERIOR ELEVATIONS

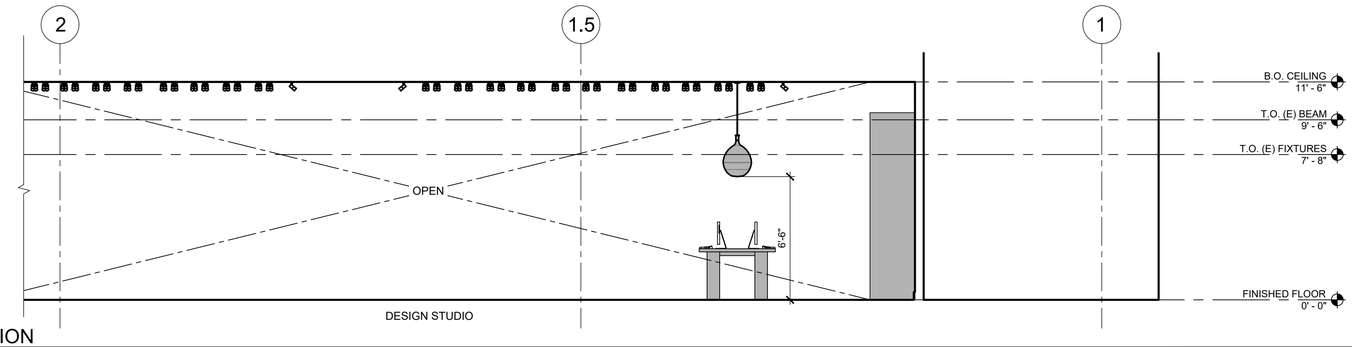
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A212



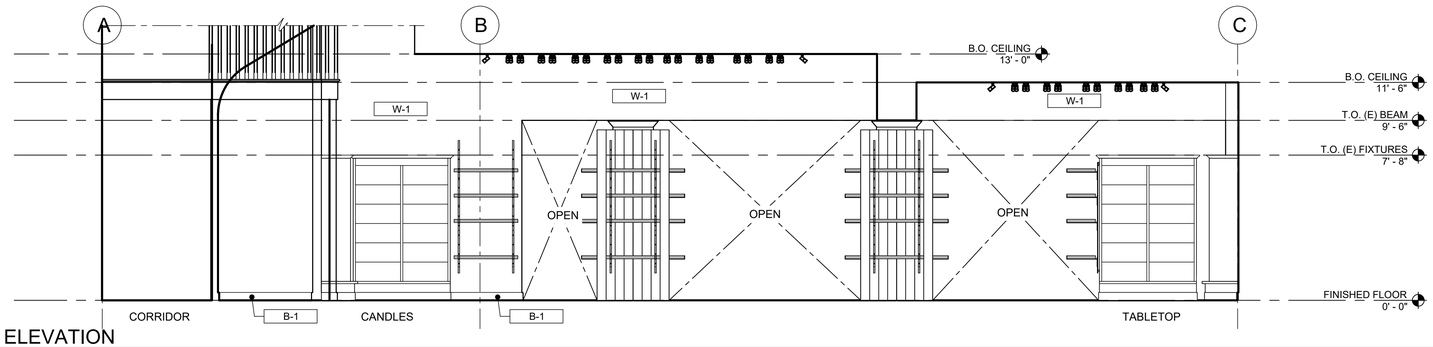
3B INTERIOR ELEVATION

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



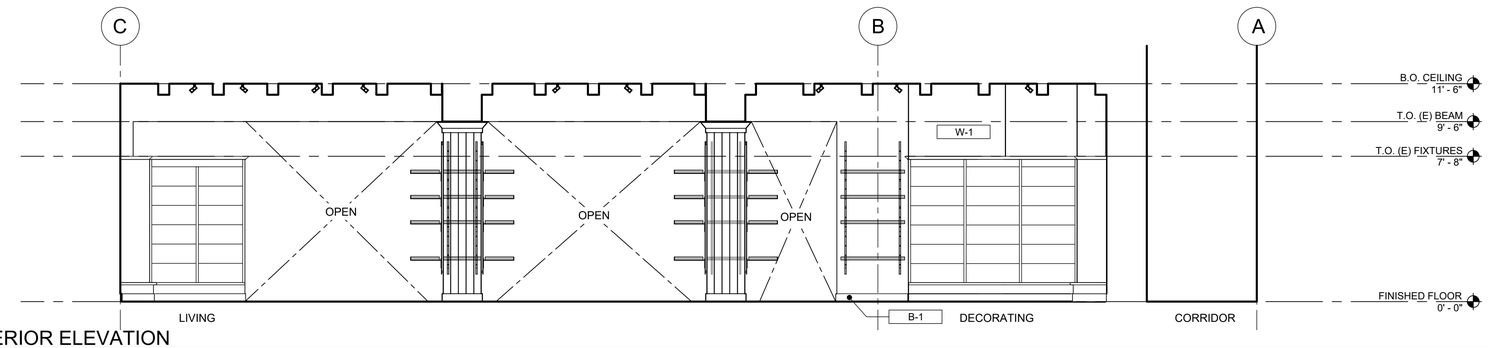
3A INTERIOR ELEVATION

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



2 INTERIOR ELEVATION

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



1 INTERIOR ELEVATION

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

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
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POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

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CERTIFICATE NO
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ARIZONA U.S.A.
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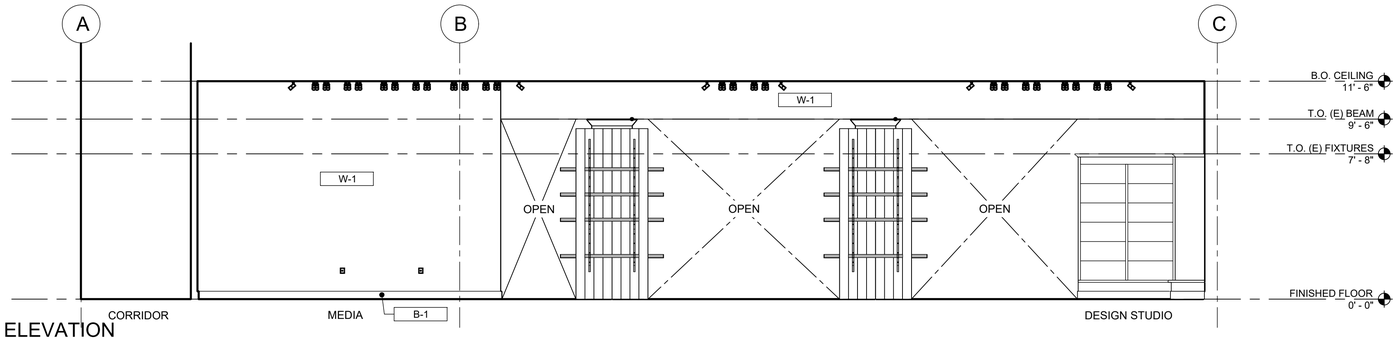
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SHEET NAME:
FIRST FLOOR
INTERIOR ELEVATIONS

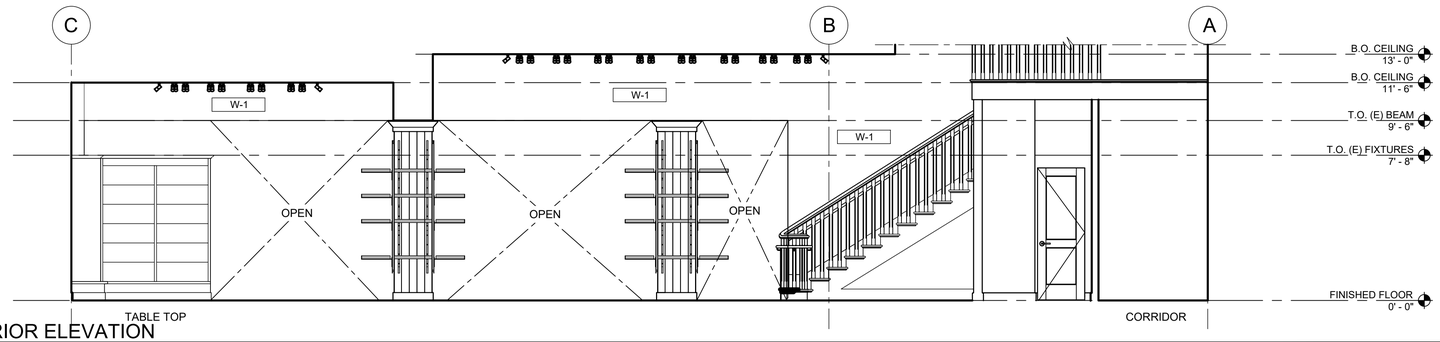
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A213



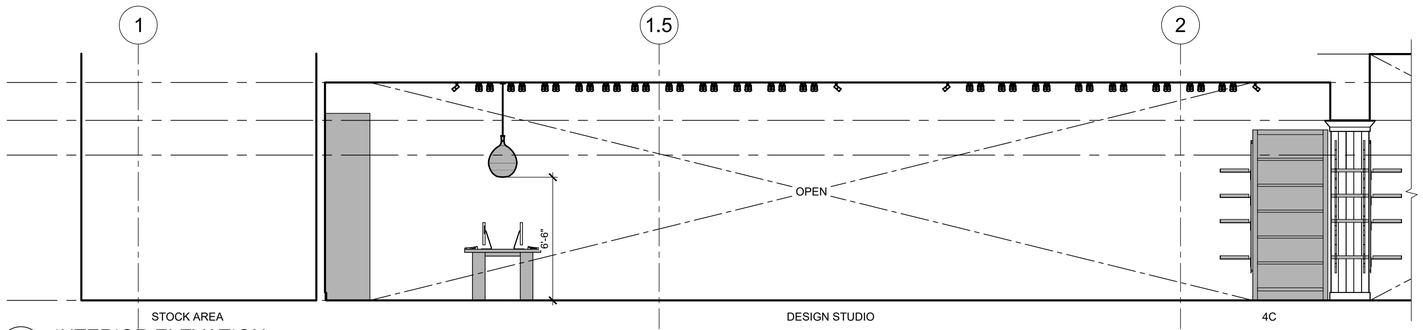
3 INTERIOR ELEVATION

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



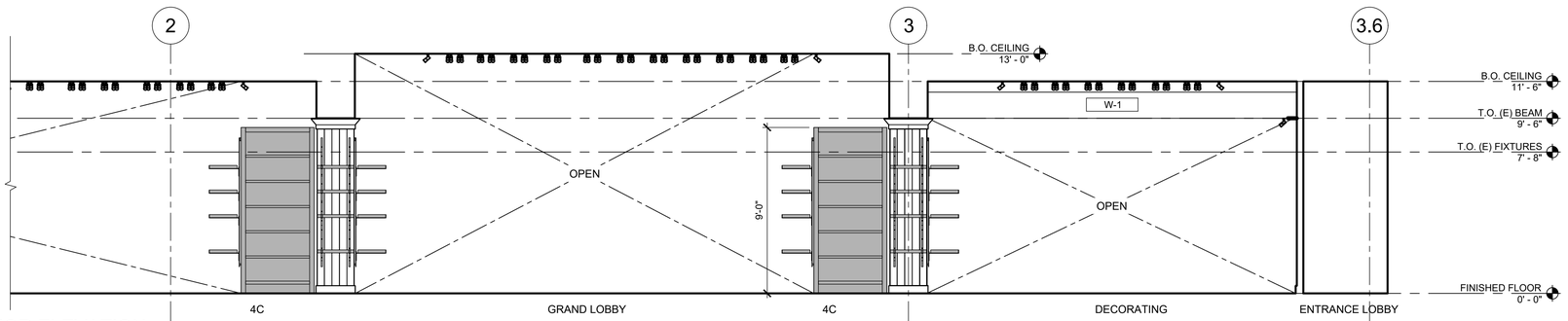
2 INTERIOR ELEVATION

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



1B INTERIOR ELEVATION

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



1A INTERIOR ELEVATION

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

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
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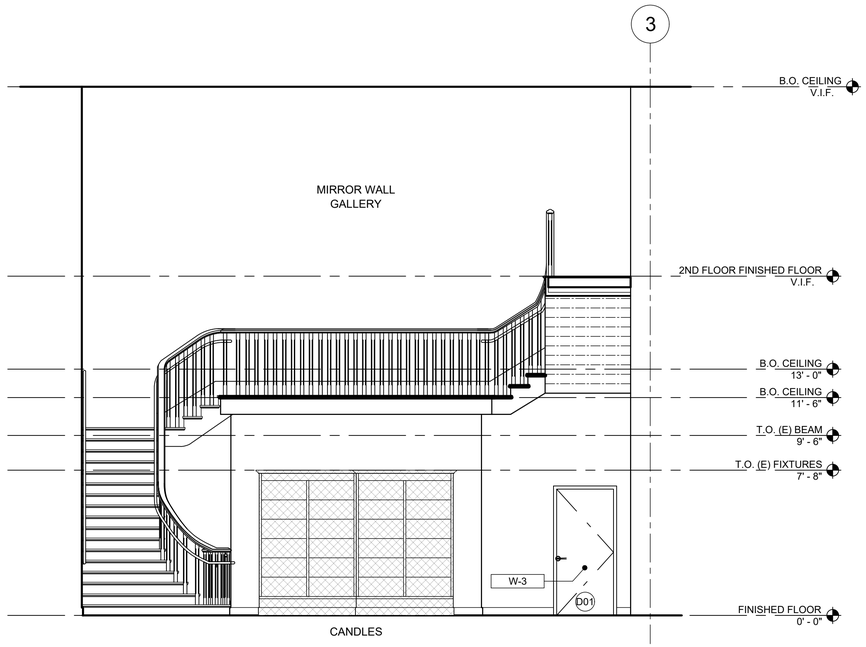
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SHEET NAME:
FIRST FLOOR
INTERIOR ELEVATIONS

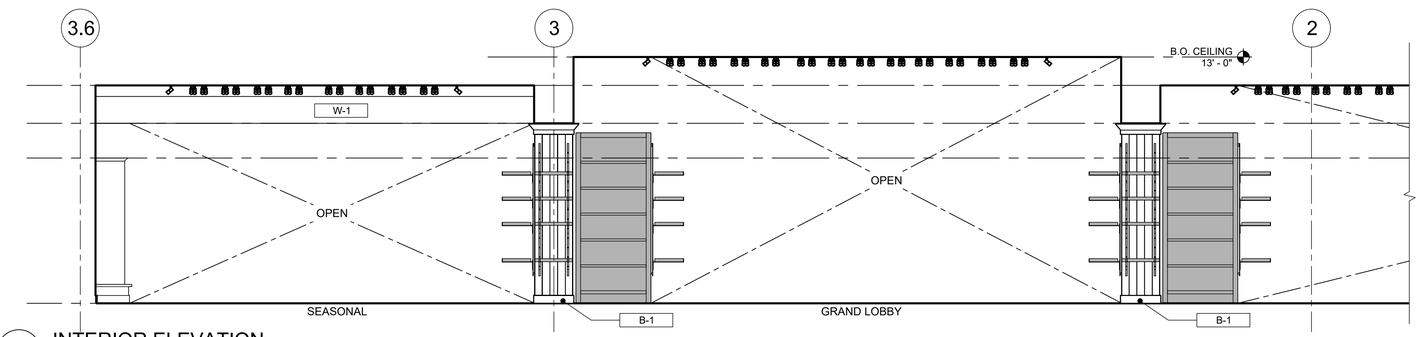
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A214



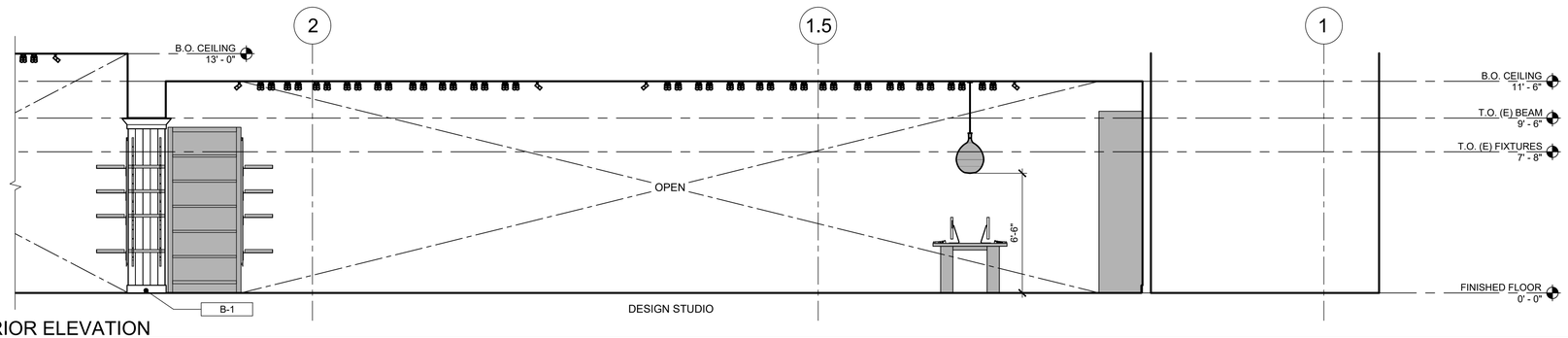
2 INTERIOR ELEVATION @ STAIRCASE / MEZZANINE FLOOR

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



1B INTERIOR ELEVATION

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



1A INTERIOR ELEVATION

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

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

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SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

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ARIZONA U.S.A.
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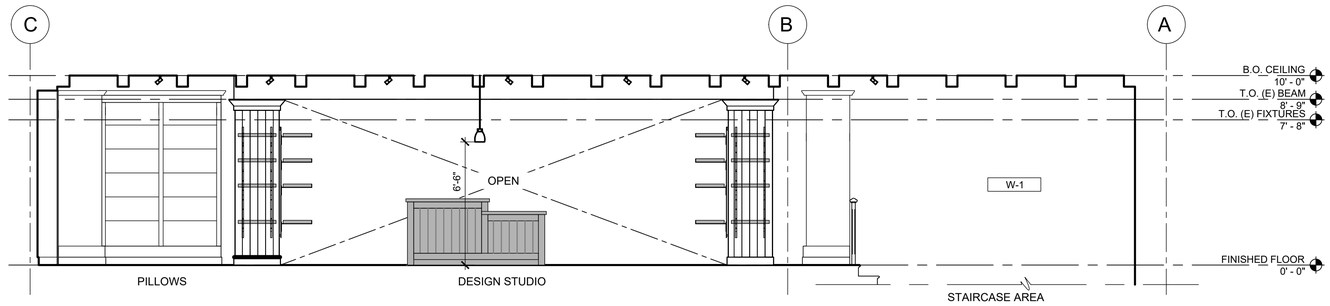
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SHEET NAME:
FIRST FLOOR
INTERIOR ELEVATIONS

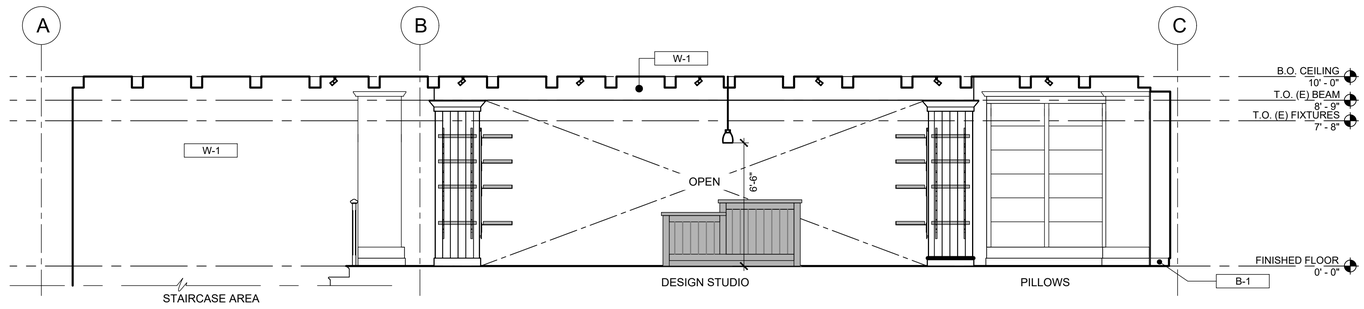
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A215



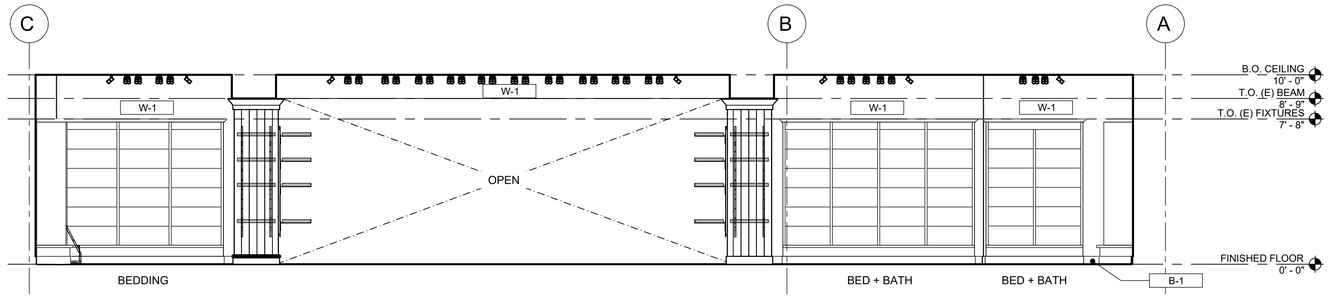
5 INTERIOR ELEVATION

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



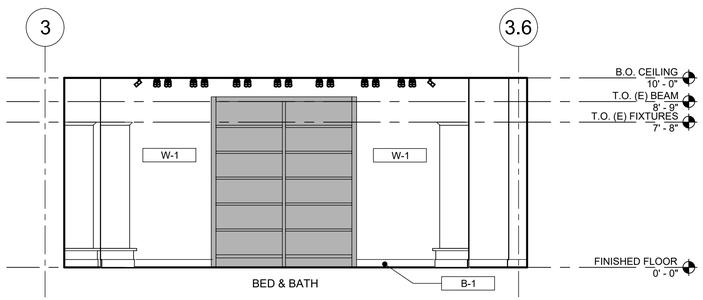
4 INTERIOR ELEVATION

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



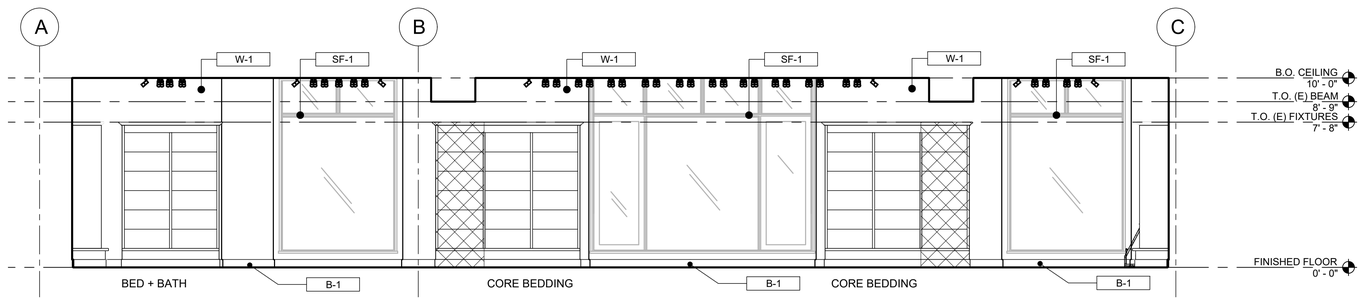
3 INTERIOR ELEVATION

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



2 INTERIOR ELEVATION

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



1 INTERIOR ELEVATION

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

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
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CERTIFICATE NO.
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

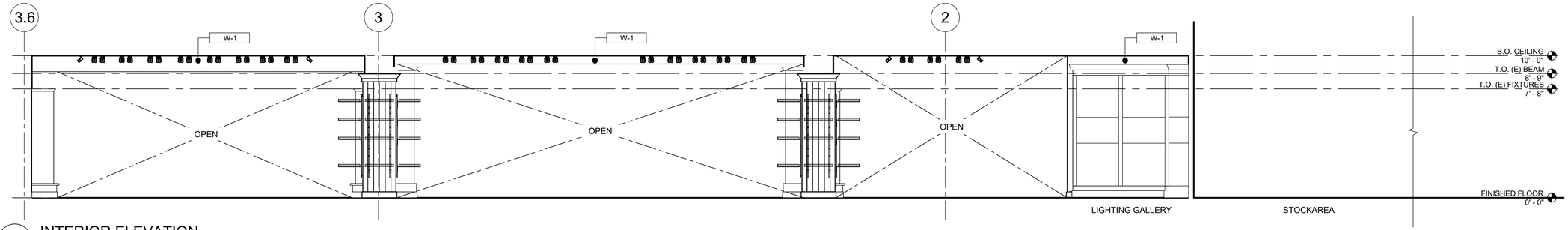
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SHEET NAME:
SECOND FLOOR
INTERIOR ELEVATIONS

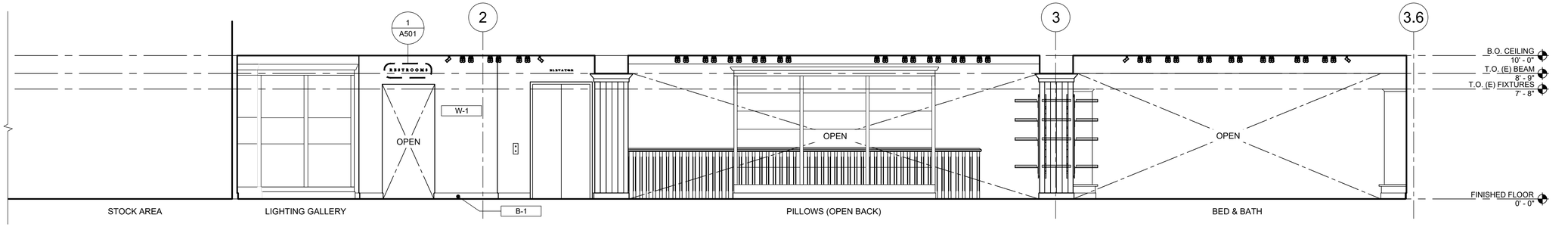
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A216



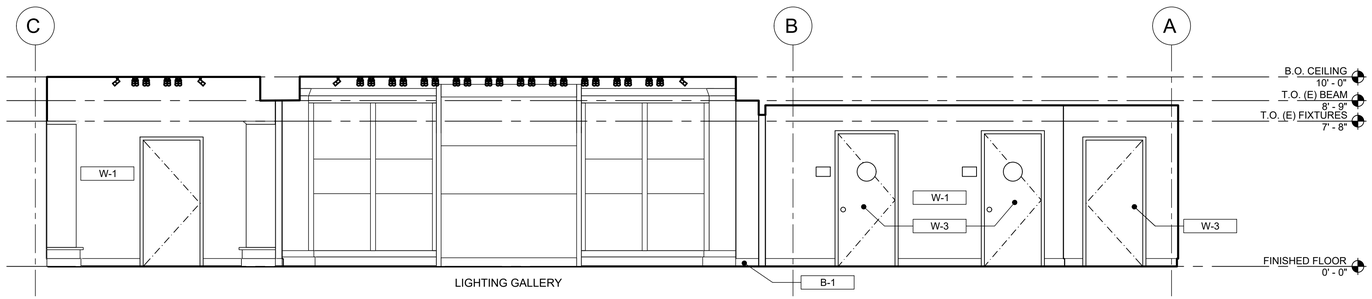
4 INTERIOR ELEVATION

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



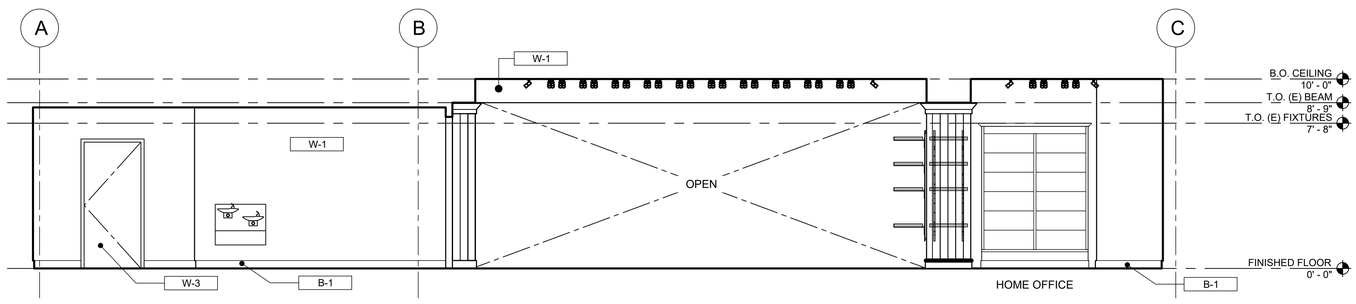
3 INTERIOR ELEVATION

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



2 INTERIOR ELEVATION

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



1 INTERIOR ELEVATION

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

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
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REGISTERED ARCHITECT
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SHEET NAME:
SECOND FLOOR
INTERIOR ELEVATIONS

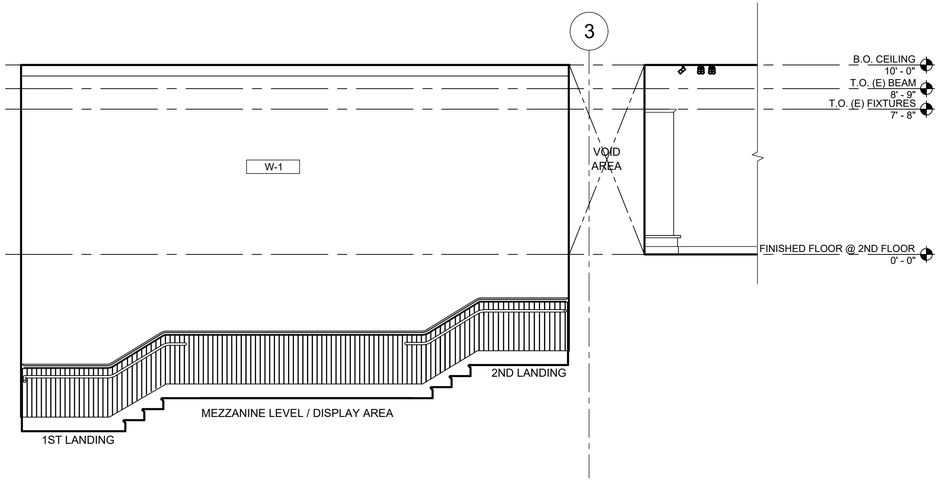
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A217

LEGEND	
	NEW FIXTURE
	EXISTING FIXTURE
	RELOCATED FIXTURE

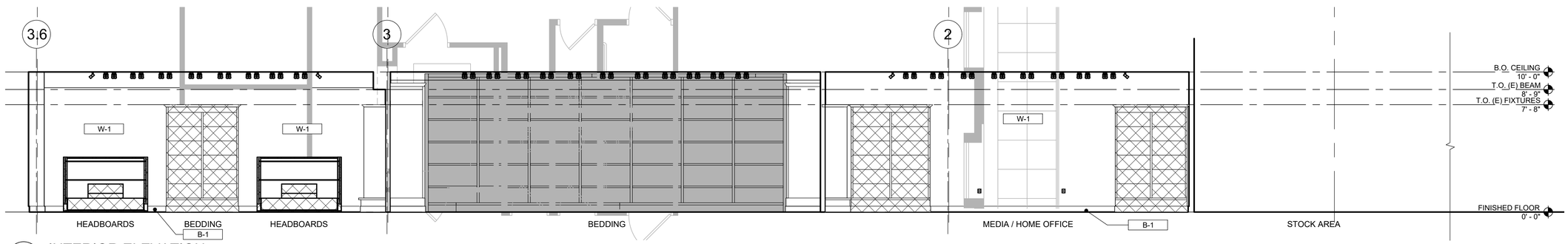
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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global



2 INTERIOR ELEVATION

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



1 INTERIOR ELEVATION

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

STORE NO.:
651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

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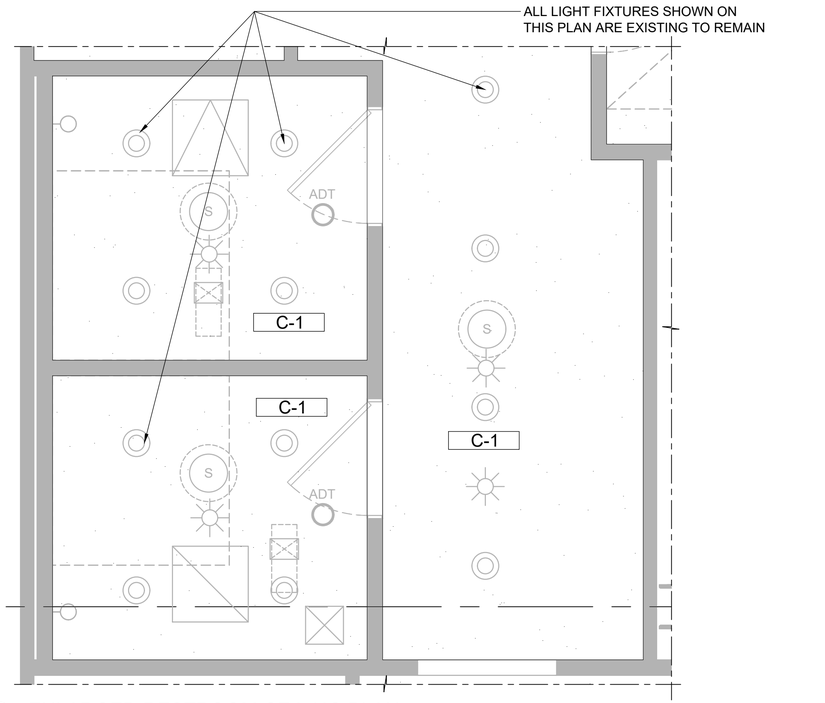
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SHEET NAME:
SECOND FLOOR
INTERIOR ELEVATIONS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: YM
SCALE: AS NOTED

SHEET NO.:
A218



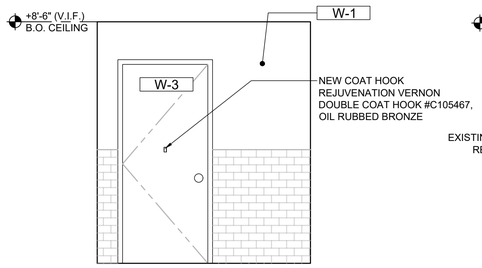
2 ENLARGED RESTROOM CEILING PLAN

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

SHEET LEGEND

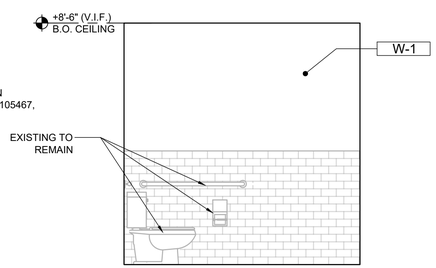
NEW FIXTURE

EXISTING FIXTURE TO REMAIN



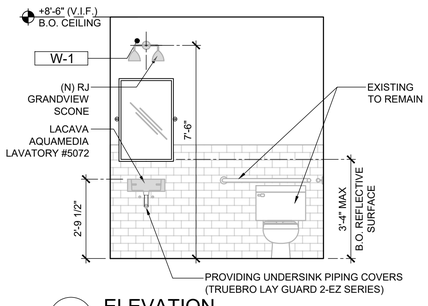
6 ELEVATION

SCALE: 3/8" = 1'-0"



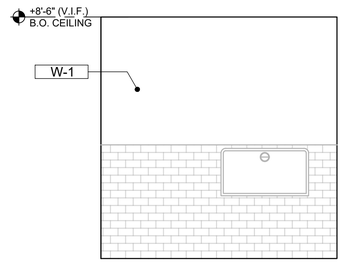
4 ELEVATION

SCALE: 3/8" = 1'-0"



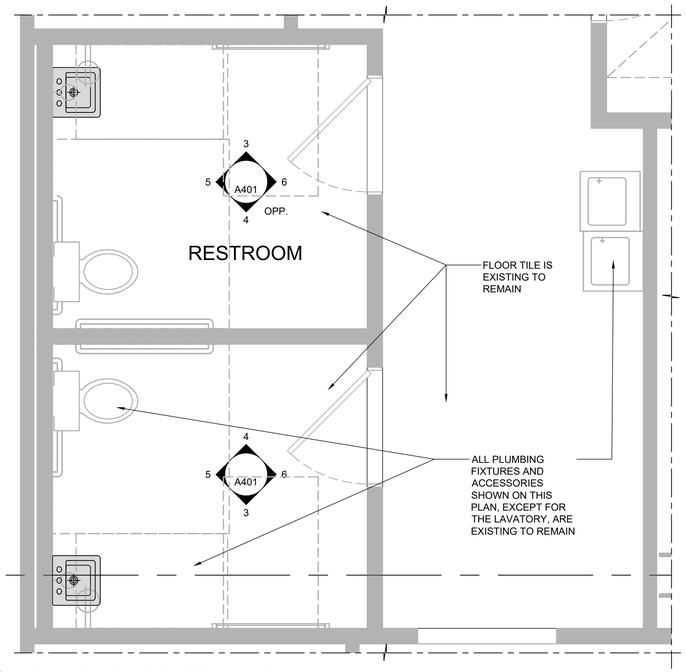
5 ELEVATION

SCALE: 3/8" = 1'-0"



3 ELEVATION

SCALE: 3/8" = 1'-0"



1 ENLARGED RESTROOM PLAN

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

zebra

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SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
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POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

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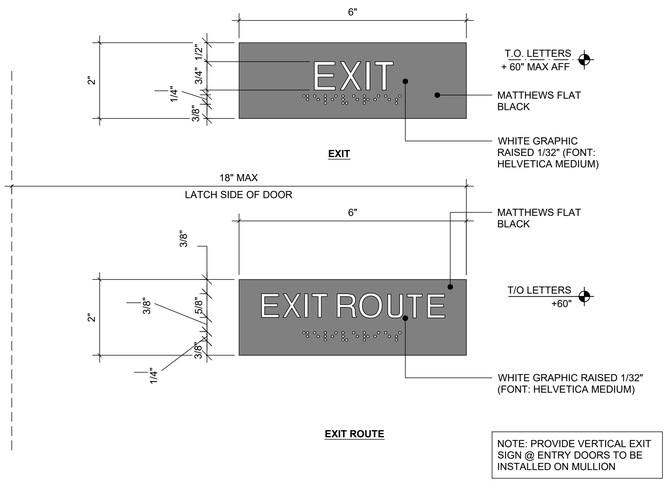
FIELD VERIFICATION:
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SHEET NAME:
ENLARGED RESTROOM PLAN & ELEVATION

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: BR
SCALE: AS NOTED

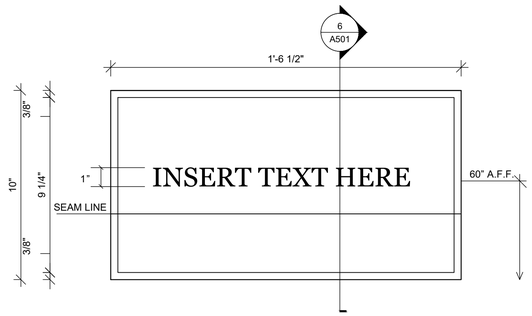
SHEET NO.:
A401



NOTE: PROVIDE VERTICAL EXIT SIGN @ ENTRY DOORS TO BE INSTALLED ON MULLION

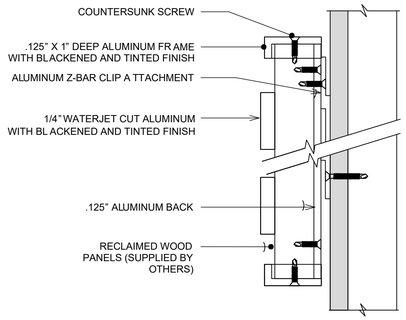
4 TACTILE EXIT SIGNS

SCALE: 6" = 1'-0"



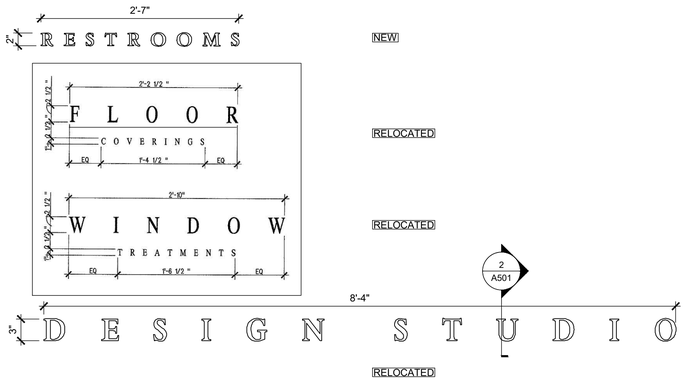
5 RECLAIMED WOOD SIGN

SCALE: 3" = 1'-0"



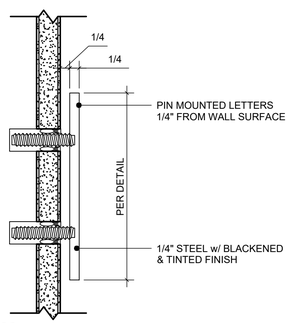
6 RECLAIMED WOOD SIGN SECTION

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



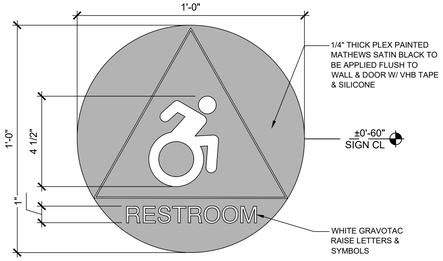
1 INTERIOR PIN MOUNTED SIGNS

SCALE: 1" = 1'-0"



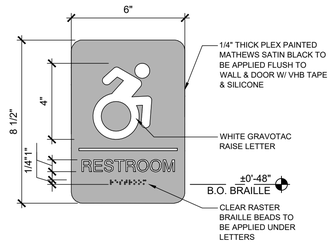
2 PIN MOUNTED SIGN SECTION

SCALE: 6" = 1'-0"



3 TACTILE RESTROOM SIGNS

SCALE: 3" = 1'-0"



PB INTERIOR GRAPHICS SCHEDULE

LOCATION	TEXT	DETAIL	SIZE	APPLIES? (Y/N)
1. INTERIOR MISCELLANEOUS SIGNS				
EMERGENCY EXIT	EXIT (WITH ACCESIBLE SYMBOL)	-	-	N
ENTRY	EXIT (WITHOUT ACCESSIBLE SYMBOL)	-	-	Y
ACCESSIBLE CASHWRAP	THIS CASHWRAP TO REMAIN OPEN	-	-	Y
2. INTERIOR PIN MOUNTED / TACTILE SIGNS				
RESTROOMS	RESTROOM (WITH ACCESSIBLE SYMBOL)	3/A501	12" x 12" 6" x 8-5/8"	Y
RESTROOM VESTIBULE CASED OPENING	RESTROOM (WITHOUT ACCESSIBLE SYMBOL)	1/A501	2" LETTERS	Y
DESIGN STUDIO	DESIGN STUDIO	1/A501	3.5" LETTERS	Y-RELOCATE
RECLAIMED WOOD SIGN	VARIES PER LOCATION	5/A501	10" x 1'-6.5"	Y
EXIT	EXIT	4/A501	2" x 6"	Y
EXIT ROUTE	EXIT ROUTE	4/A501	2" x 6"	Y
3. INTERIOR VINYL SIGNS				
SALES-TO-STOCK DOOR	PRIVATE	-	-	N

PB EXTERIOR GRAPHICS SCHEDULE

LOCATION	TEXT	DETAIL	SIZE	APPLIES? (Y/N)
1. TEMPORARY STORE OPENING GRAPHICS				
STOREFRONT WINDOW	POTTERY BARN	-	-	N
	OPENING SEASON, YEAR	-	-	N
	PHONE NUMBER, WEBSITE	-	-	N
2. EXTERIOR ILLUMINATED ENTRY SIGN				
EXTERIOR STOREFRONT	POTTERY BARN	-	-	Y
BLADE SIGN (EXTERIOR STOREFRONT)	POTTERY BARN	-	-	N
3. EXTERIOR MISC. SIGN				
DELIVERIES	DELIVERIES	-	-	N
CUSTOMER PICK-UP PLAQUE	POTTERY BARN CUSTOMER PICK-UP	-	-	N
CUSTOMER PICK-UP DIRECTIONAL	POTTERY BARN CUSTOMER PICK-UP	-	-	N
CUSTOMER PICK-UP PARKING POST	RESERVED PARKING (NON-BRANDED)	-	-	N
4. WINDOW VINYLS				
STOREFRONT	POTTERY BARN	-	-	Y
STORE HOURS	MON-FRI XX-X:XX SAT XX-X:XX SUN XX-X:XX	-	-	Y

GRAPHIC SCHEDULE NOTES

1. VERIFY LOCATION OF ALL GRAPHICS ON SITE WITH ARCHITECT PRIOR TO INSTALLATION.
2. HEIGHT OF SIGNAGE IS BASED ON THE "P" OF THE POTTERY BARN LOGO.
3. FINISH TO BE BLACK, U.O.N.
4. SIGNAGE SHOP DRAWINGS TO BE SUBMITTED FOR LANDLORD APPROVAL.
5. ALL EXTERIOR SIGNAGE AND AWNINGS TO BE UNDER SEPARATE PERMIT, IF USED.
6. VERIFY ALL SIGNAGE W/ SUBMITTAL FOR APPROVAL, TYP.

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
651

POTTERY BARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B.
SHIRK
Date signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

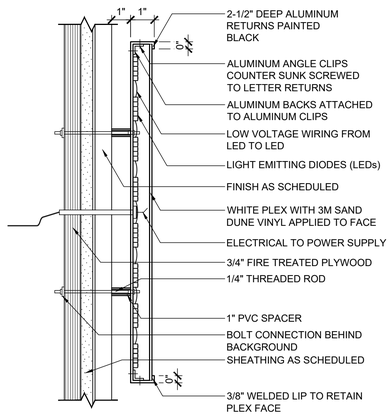
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SHEET NAME:
SIGNAGE DETAILS

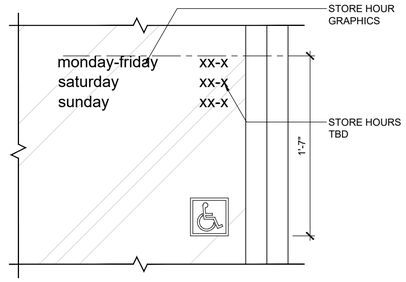
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: BR
SCALE: AS NOTED

SHEET NO.:
A501



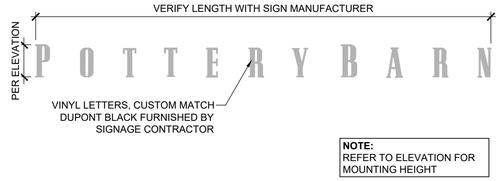
4 SECTION AT EXTERIOR HALO-LIT SIGN

SCALE: 3" = 1'-0"



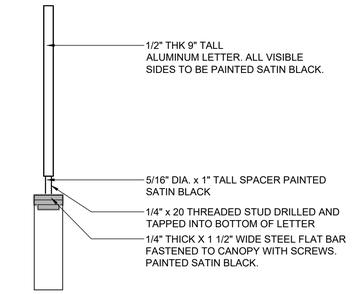
5 STORE OPENING HOURS

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



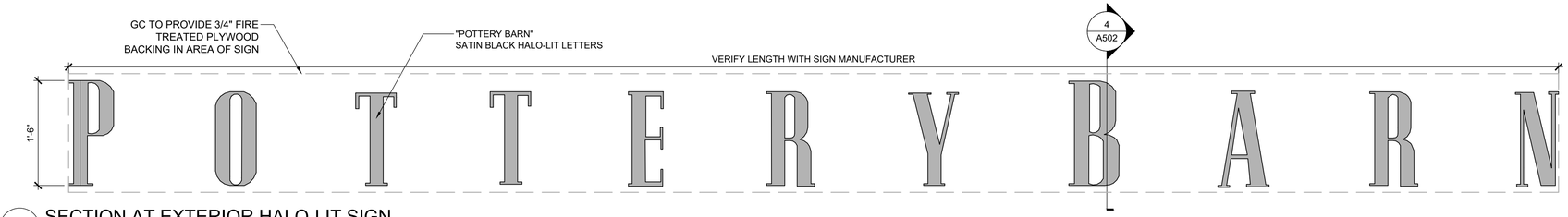
6 VINYL WINDOW GRAPHICS

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



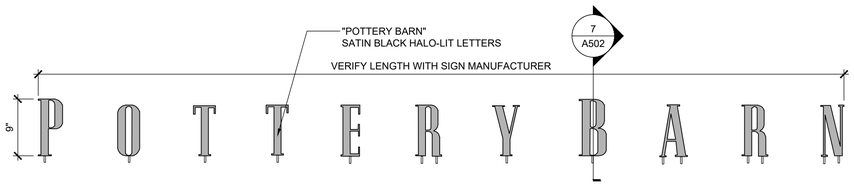
7 STEM MOUNTED LETTER SIGN

SCALE: 3" = 1'-0"



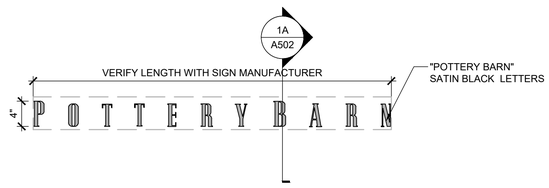
3 SECTION AT EXTERIOR HALO-LIT SIGN

SCALE: 1" = 1'-0"



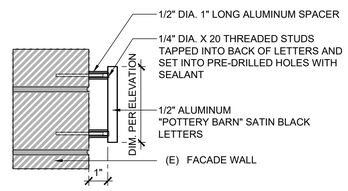
2 SECTION AT EXTERIOR STEM MOUNTED SIGN

SCALE: 1" = 1'-0"



1 SECTION AT EXTERIOR HALO-LIT SIGN

SCALE: 1" = 1'-0"



1A EXTERIOR WALL PIN MOUNTED LETTER SIGN

SCALE: 3" = 1'-0"

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
651

POTTERY BARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO.
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

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SHEET NAME:
EXTERIOR SIGNAGE DETAILS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: RM
SCALE: AS NOTED

SHEET NO.:
A502

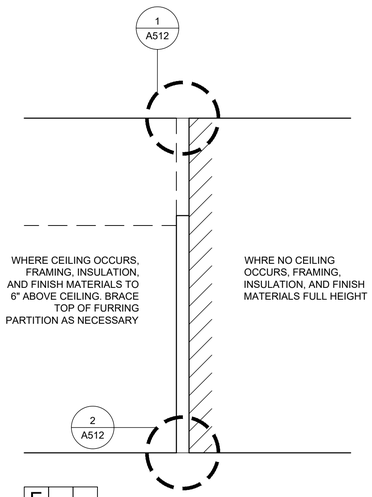
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SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

NOTE:

ALL PARTITIONS HERE MAY BE MASONRY OR FRAMING WITH FINISH MATERIALS. SEE PARTITION-TYPE INDICATOR FOR SPECIFIC CONSTRUCTION.

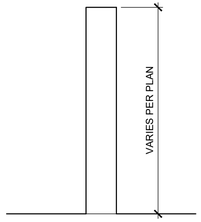
FRAMED PARTITIONS WITH FINISH MATERIALS ARE GRAPHICALLY INDICATED HERE FOR CLARITY IN REFERENCING DETAILS AND FRAMING ATTACHMENTS. FOR TOPS AND BOTTOMS OF MASONRY PARTITIONS, SEE STRUCTURAL DRAWINGS.



E

NON-FIRE RATED

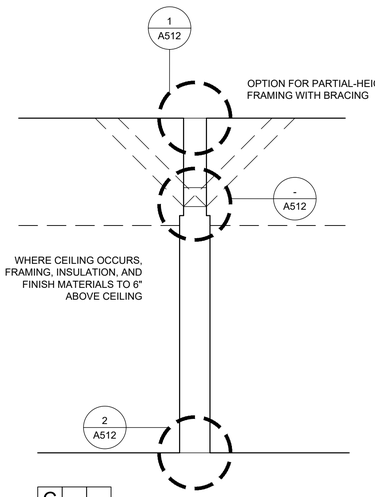
FURRING PARTITION



D

NON-FIRE RATED

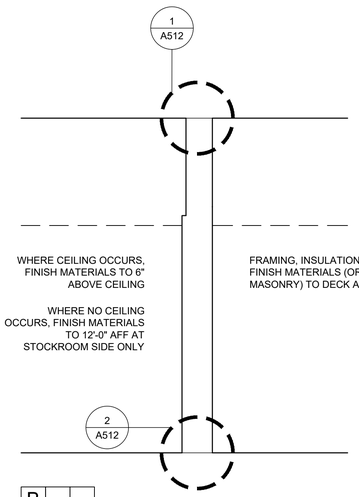
PARTIAL-HEIGHT PARTITION



C

NON-FIRE RATED

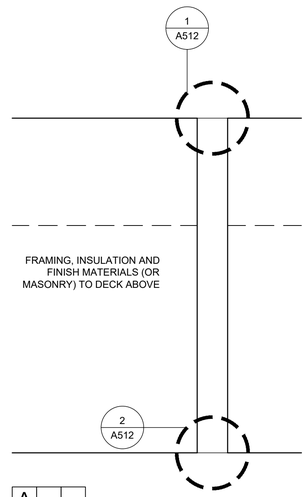
PARTITION BRACED AT CEILING



B

NON-FIRE RATED

PARTITION WITH FULL AND PARTIAL-HEIGHT FINISH MATERIALS



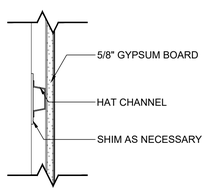
A

NON-FIRE RATED

FULL-HEIGHT PARTITION

6 PARTITION CONFIGURATIONS

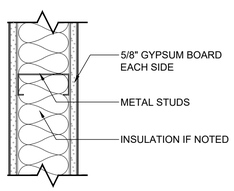
SCALE: NTS



10	3-5/8" METAL STUDS
11	2-1/2" METAL STUDS
12	6" METAL STUDS

5 FURRING

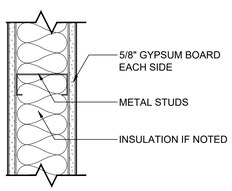
SCALE: NTS



7	3-5/8" METAL STUDS
8	2-1/2" METAL STUDS
9	6" METAL STUDS

4 PARTITION (1HR FIRE RATED)

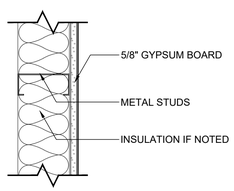
SCALE: NTS



4	3-5/8" METAL STUDS
5	2-1/2" METAL STUDS
6	6" METAL STUDS

3 PARTITION

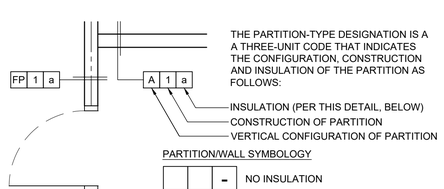
SCALE: NTS



1	3-5/8" METAL STUDS
2	2-1/2" METAL STUDS
3	6" METAL STUDS

2 PARTITION

SCALE: NTS



NOTES:

1. SPECIFICATION FOR STUD SPACING AND GAUGE.
2. WHERE FIRE AND/OR SOUND RATINGS ARE INDICATED, THE GYPSUM BOARD REQUIRED SHALL BE CONTINUOUS BEHIND ABUTTING NON-RATED PARTITIONS SO THAT FIRE AND/OR ACOUSTIC PERFORMANCE IS NOT COMPROMISED.

1 PARTITION-TYPE LEGEND

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

STORE NO.: 651

POTTERY BARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

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SHEET NAME: WALL AND PARTITION TYPES

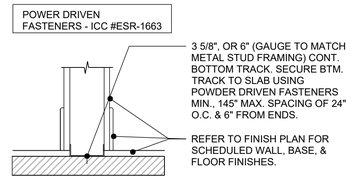
DATE: 1/13/22

PROJECT NO.: 33126

DRAWN: BR

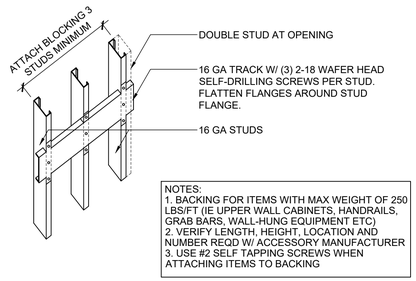
SCALE: AS NOTED

SHEET NO.: A511



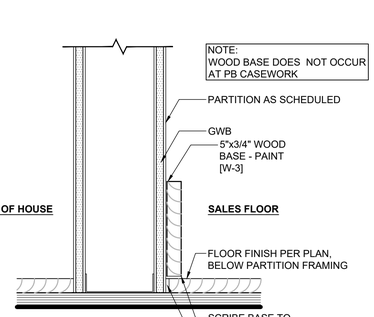
3 TYPICAL CONNECTION DETAIL AT FLOOR

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



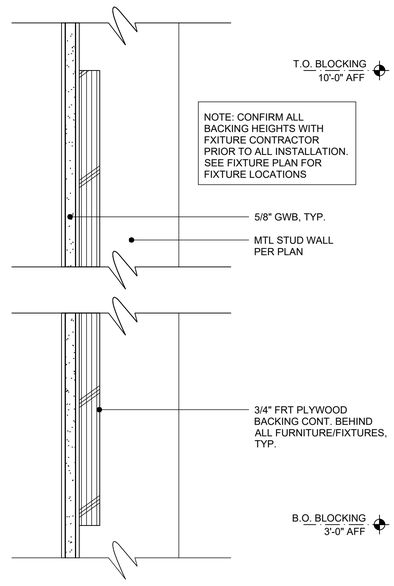
5 BACKING ATTACHMENT - HEAVY DUTY

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



4 TYPICAL WALL BASE AT SALES AREA

SCALE: 3" = 1'-0"



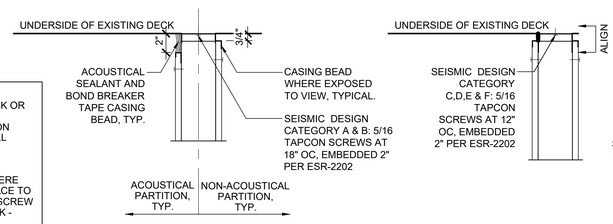
2 BLOCKING BEHIND FURNITURE BAYS & MIRROR

SCALE: 3" = 1'-0"

GENERAL NOTES:
20 GAGE MINIMUM DEEP LEG TRACK OR SLOTTED TRACK TO ALLOW 3/4" DEFLECTION. MAINTAIN DEFLECTION CAPACITY AND FIRE -RATING AT ALL STRUCTURAL MEMBERS

STUDS CUT 3/4" DEFLECTION AT TOP OF FINISH MATERIALS (WHERE OCCURS) PROVIDE 3/4" CLEAR SPACE TO ALLOW 3/4" DEFLECTION. DO NOT SCREW FINISH MATERIALS INTO TOP TRACK - FASTEN INTO STUDS ONLY.

AT PARTITION WITH ACOUSTICAL INSULATION, INSTALL GYPSUM BOARD 2" SHORT TO ACCOMMODATE LARGER ACOUSTICAL SEALANT JOINT NEEDED TO ACHIEVE 3/4" DEFLECTION.



1 INTERSECTION OF NON-RATED PARTITIONS TO EXISTING DECK

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

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SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
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SCOTTSDALE, AZ 85254

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ZACHARY B. SHIRK
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ARIZONA U.S.A.
Expires: 6/30/2024

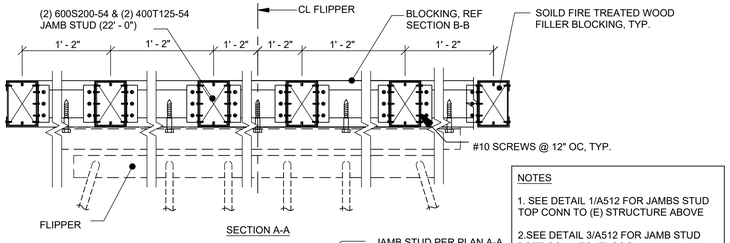
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SHEET NAME:
WALL DETAILS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: CR
SCALE: AS NOTED

SHEET NO.:
A512

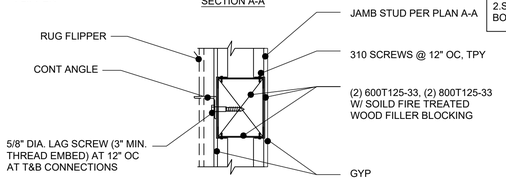


SECTION A-A

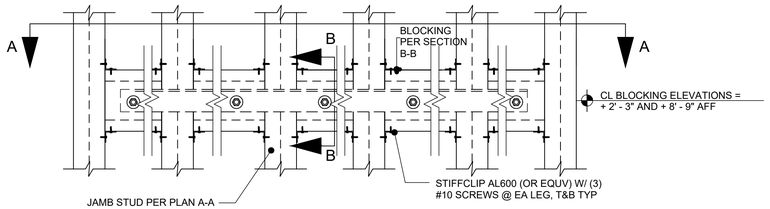
NOTES

1. SEE DETAIL 1/A512 FOR JAMBS STUD TOP CONN TO (E) STRUCTURE ABOVE

2.SEE DETAIL 3/A512 FOR JAMB STUD BOTT CONN TO (E) SOG

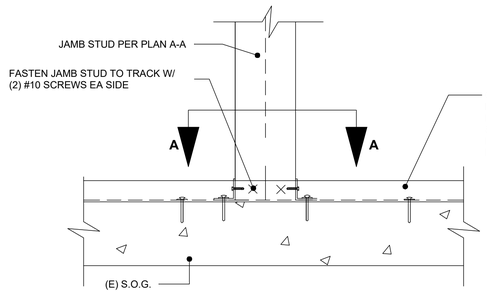


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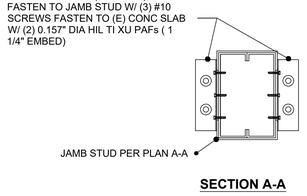
3 TYP. FLIPPER SUPPORT

SCALE: 1" = 1'-0"

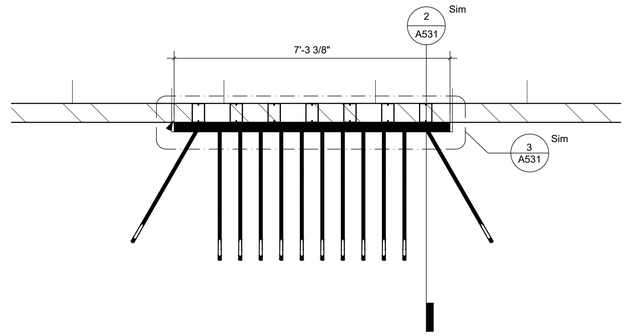


5 TYP. FLIPPER JAMB STUD BOTTOM CONNECTION DETAIL

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

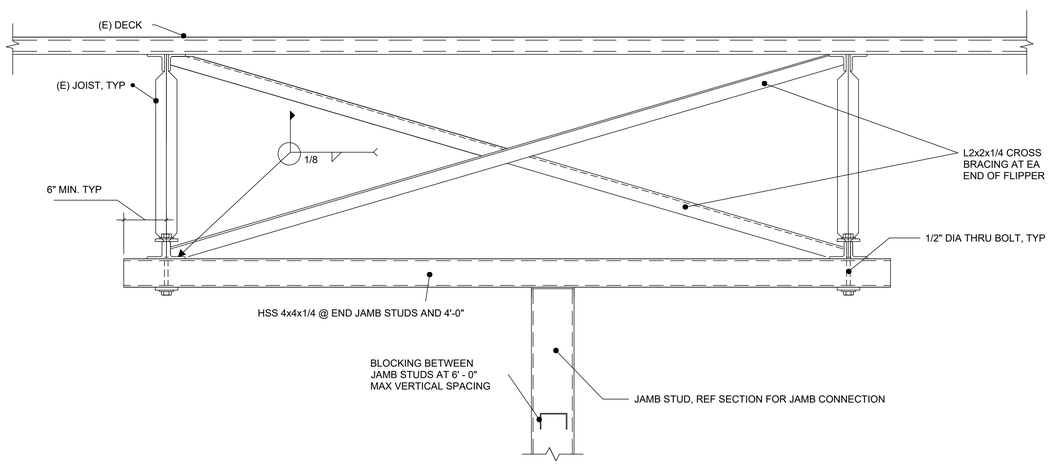


SECTION A-A



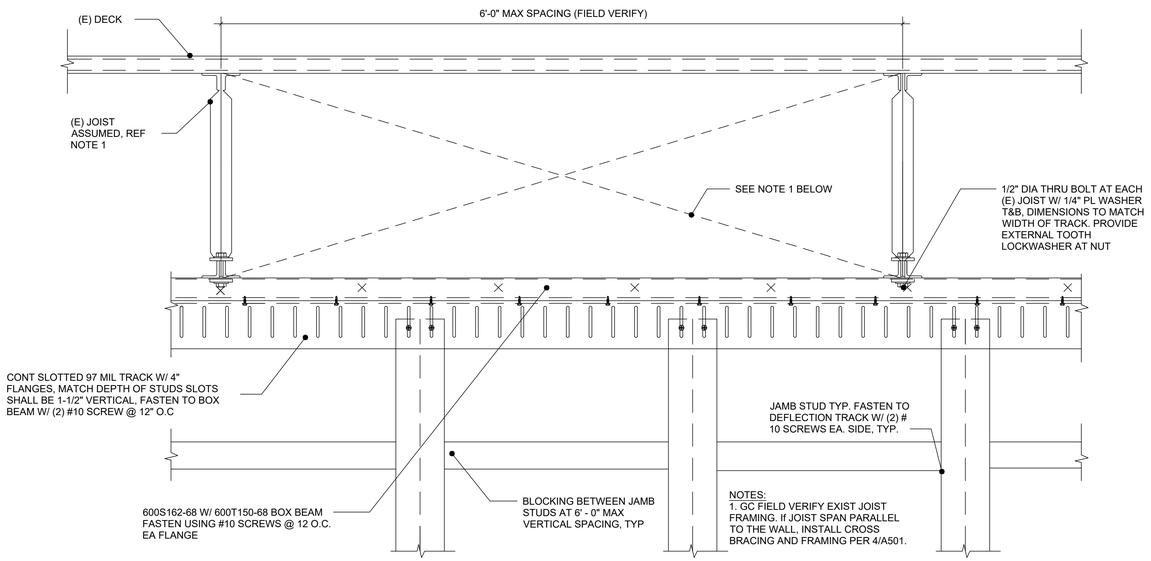
4 ENLARGED FLIPPER PLAN

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



1 FULL HEIGHT - TYP CROSS BRACE

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



NOTES:
1. GC FIELD VERIFY EXIST JOIST FRAMING. If JOIST SPAN PARALLEL TO THE WALL, INSTALL CROSS BRACING AND FRAMING PER 4/A501.

2 FULL HEIGHT - FLIPPER JAMB STUD TOP CONNECTION DETAIL

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

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SCOTTSDALE QUARTER,
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SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
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REGISTERED ENGINEER
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

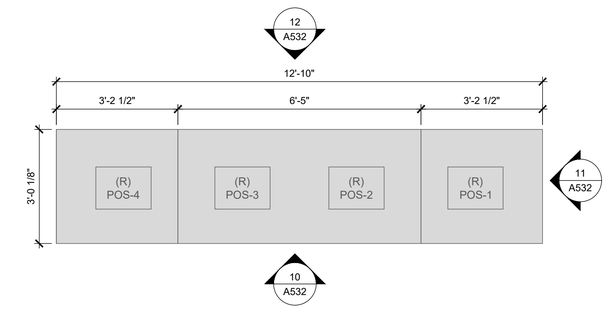
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SHEET NAME:
FLIPPER SUPPORT DETAILS

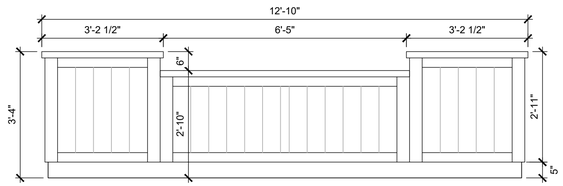
DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: BR
SCALE: AS NOTED

SHEET NO.:
A531



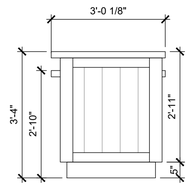
9 CASHWRAP - ENLARGED PLAN

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



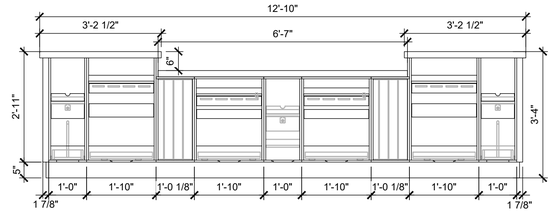
10 CASHWRAP FRONT ELEVATION

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



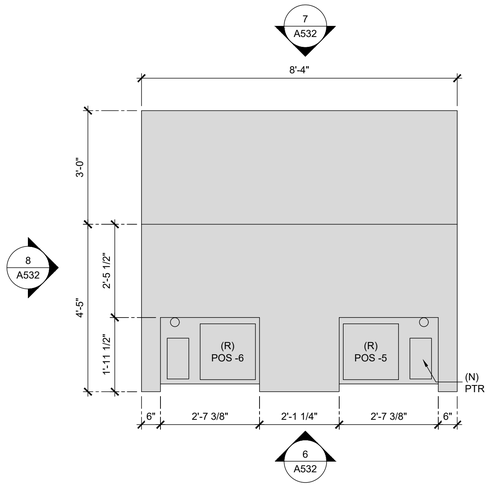
11 CASHWRAP SIDE ELEVATION

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



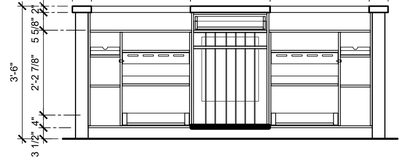
12 CASHWRAP BACK ELEVATION

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



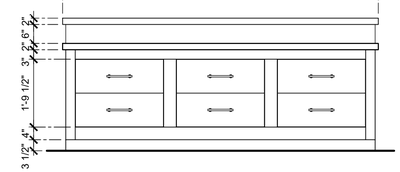
5 DS CASHWRAP (EXISTING) - ENLARGED PLAN

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



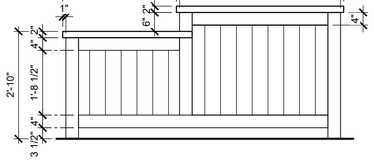
6 DS CASHWRAP - BACK ELEVATION

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



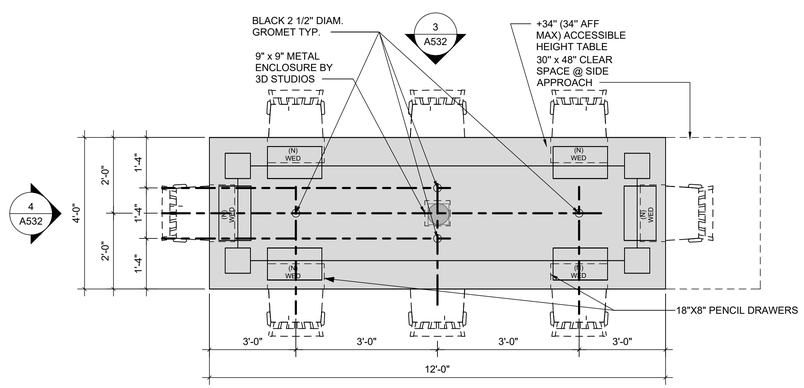
7 DS CASHWRAP - FRONT ELEVATION

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



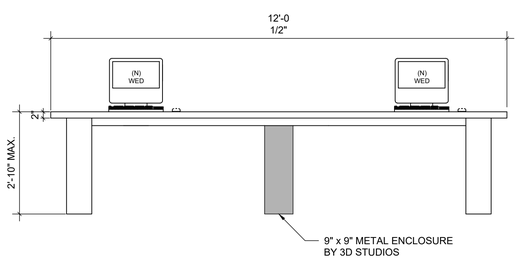
8 DS CASHWRAP - SIDE ELEVATION

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



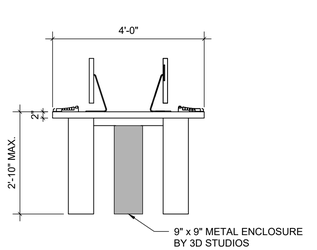
2 CONSULT TABLE - ENLARGED PLAN

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



3 CONSULT TABLE - FRONT ELEVATION

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



4 CONSULT TABLE - SIDE ELEVATION

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

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SCOTTSDALE, AZ 85254

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1	01/13/22	REVISION 1

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REGISTERED ARCHITECT
CERTIFICATE NO
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

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SHEET NAME:
MILLWORK DETAILS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: BR
SCALE: AS NOTED

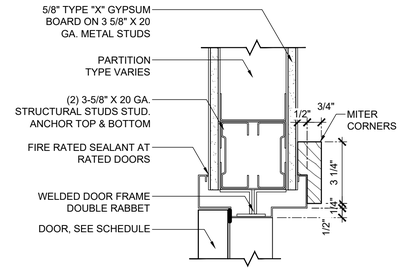
SHEET NO.:
A532

DOOR SCHEDULE

DOOR NUMBER	DESCRIPTION	NEW / EXISTING	SIZE	DOOR DATA				FRAME DATA					FIRE RATING	HARDWARE								REMARKS
				THICKNESS	MATERIAL	TYPE	FINISH	MATERIAL	FINISH	HEAD	JAMB	SILL		BUTTS	LOCKSET	EXIT DEVICES	CLOSER	STOP	PUSH/PULL BARS	WEATHERSTRIP THRESHOLD	MISC	
001	STOCKROOM	N	3' x 7"	0'-2"	HM	E	W-3	WELD METAL	W-3	1/A601	1/A601	-	-	B	B	-	B	B	-	-	-	

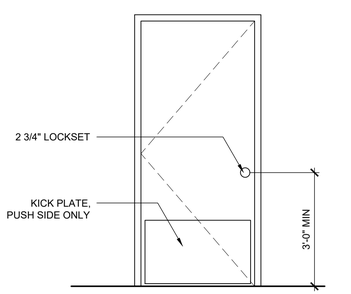
DOOR TYPES AND NOTES

GROUP	QTY / DESCRIPTION	MANUFACTURER / SPECIFICATION
B - SALES TO STOCKROOM	3 EA BUTTS 1 EA LOCKSET ~~1 EA EXIT DEVICE~~ 1 EA CLOSER 1 EA STOPS 1 EA KICKPLATE PROVIDE SILENCERS	MCKINNEY #TA786 26D 4.5 X 4.5 TRILOGY LOCK (OR SIMILAR) PROVIDED & INSTALLED BY GC ON PULL SIDE, PREP FOR CYLINDER LOCK ~~PUSH BAR ON PUSH SIDE, NO AUDIBLE ALARM, COORDINATE WITH LOCKSET MANUFACTURER~~ SARGEN #EN1431-0 X EN 1430-B INVERTED BRACKET GJ #415S 32D 90 DEGREE OVER HEAD STOP & IVES FS452 26D KICKDOWN STOP TICE #B4E 20 X 38 X 32D IVES #SR64



2 DOOR DETAIL-HM FRAME

SCALE: 3" = 1'-0"



METAL DOOR AND FRAME

TYPE E

1 DOOR TYPES

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

DOOR TYPES AND NOTES

1. EXIT DOORS AT STOREFRONT SHALL HAVE SIGN ABOVE STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED" IN 1" HIGH BLACK VINYL LETTERS ON A SILVER BACKGROUND. LOCKING DEVICE TO BE OF TYPE THAT IS READILY DISTINGUISHABLE AS LOCKED.
2. DOORS WITHIN THE PATH OF TRAVEL FOR HANDICAPPED TO BE OPENABLE WITH A SINGLE EFFORT BY LEVER, PANIC BAR OR PUSH / PULL HARDWARE.
3. EXIT DOORS TO BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
4. EXTERIOR DOOR CLOSERS TO BE ADJUSTED TO PROVIDE FOR A MAXIMUM EFFORT TO OPERATE OF 15 LBF (1008.1.3) AT FIRE DOOR, USE FORCE ACCEPTABLE BY FIRE MARSHALL.
5. INTERIOR DOOR CLOSERS TO BE ADJUSTED TO PROVIDE FOR A MAXIMUM EFFORT TO OPERATE OF 5.O LBF.
6. THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT.
7. ALL WOOD AND HM DOORS TO HAVE 1-1/2" PAIR BUTTS PER LEAF.
8. BOTH SIDES OF DOOR LEAFS AND FRAMES SHALL BE FINISHED THE SAME, UNLESS OTHERWISE NOTED.
9. ALL WOOD DOOR FRAMES AND TRIM SHALL BE AWI OR WIC CUSTOM GRADE UON.
10. DOORS AND CASED OPENINGS INDICATED ADJACENT TO WALL INTERSECTIONS SHALL BE LOCATED WITH THE EDGE OF FINISH OPENING SIX INCHES FROM THE ADJACENT WALL UNLESS OTHERWISE INDICATED; ALL OTHER DOORS AND CASED OPENINGS SHALL BE CENTERED BETWEEN NEAREST ADJACENT WALL INTERSECTIONS, UNLESS OTHERWISE DIMENSIONED.
11. ALL LEGAL EXITS SHALL BE PROVIDED WITH SELF-ILLUM. EXIT SIGNS HAVING 6" LETTERS WITH 3/4" STROKES IN CONTRASTING COLORS.
12. CAUTION: HM DOORS TAKE LARGER STRIKES THAN SOLID CORE DOORS.
13. HARDWARE CONTRACTOR TO COORDINATE ALL HARDWARE WITH DOORS AND FRAMES AS SPECIFIED, INCLUDING LOCKSETS AND STRIKES.
14. ALL MILLWORK IN THE SCOPE OF WORK SHALL BE DELIVERED IN SITE SHOP-PRIMED AND SANDED.
15. INSTALL ALL DOORS AND HARDWARE TO MEET ACCESSIBILITY REQUIREMENTS.

HARDWARE NOTES

1. ANY SUBSTITUTIONS TO BE SUBMITTED WITH CATALOG FOR ARCH APPROVAL.
2. GENERAL CONTRACTOR TO INSTALL LOCKSET WITH CONSTRUCTION CORES.
3. SUBMIT THREE (3) COPIES OF HARDWARE LIST AND CUT SHEETS. CUT SHEETS TO CLEARLY INDICATE HARDWARE TO BE USED.
4. CONTRACTOR TO ORDER ALL HARDWARE IMMEDIATELY UPON APPROVAL OF HARDWARE LIST.
5. GC IS RESPONSIBLE TO BID HARDWARE THAT CONFORMS TO REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
6. WHERE OPENINGS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE HARDWARE COMPONENTS LABELED BY UNDERWRITES LABORATORY, OR OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED.
7. HARDWARE SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.
8. WHERE APPLICABLE, DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM PER TEXAS ACCESSIBILITY STANDARD 404.2.8.1.

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

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SCOTTSDALE QUARTER,
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SHEET NAME:
DOOR SCHEDULE

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A601

SHEET NOTES

SUBFLOOR SPECIFICATION

GENERAL:
THE FINISHED SUBFLOOR MUST BE CLEAN, DRY, FLAT (WITHIN 3/16" IN 10').

CONCRETE SUBFLOOR GUIDELINES: (NWFA INSTALLATION GUIDELINES, SEC. II, CH. 5).

NOTE: ALWAYS FOLLOW THE WOOD FLOORING AND ADHESIVE MANUFACTURER'S RECOMMENDATION FOR A PROPER SUBFLOOR.
PART I
CONCRETE SUBFLOOR SPECIFICATIONS
A. SUBFLOOR MUST BE FLAT, 3/16" IN A 10-FOOT RADIUS
   a. IF THE SLAB IS OUT OF SPECIFICATION, CONSIDER GRINDING, FLOATING OR BOTH.
B. SUBFLOOR MUST BE DRY. WITH A CALCIUM CHLORIDE READING OF 3 POUNDS OR LESS, A RELATIVE HUMIDITY READING OF 75% OR LESS, OR A CALCIUM CARBIDE (CM) READING NOT GREATER THAN 2.5%.
   a. IF A SLAB TESTS TOO HIGH IN VAPOR EMISSION USE A VAPOR RETARDING ADHESIVE PRODUCT, SUCH AS BOSTIK GREENFORCE AND FOLLOWING THE MANUFCTURERS DIRECTIONS OR USE AN ALTERNATIVE INSTALLATION METHOD.
C. SLAB MUST BE:
   a. MINIMUM 3000 PSI.
   b. FREE FROM NON-COMPATIBLE SEALERS, WAXES, OIL, PAINT, DRYWALL COMPOUND, ETC.
D. DO NOT ATTEMPT TO GLUE A WOOD FLOOR OVER CHALKY OR SOFT CONCRETE SLAB.
E. BURNISHED OR SLICK SLABS MAY REQUIRE SCREENING OR SANDING WITH A 30-GRIT

SUBFLOOR SPECIFICATION

GENERAL:
THE SUBFLOOR MUST BE CLEAN, DRY, FLAT (WITHIN 3/16" IN 10'), AND STRUCTURALLY SOUND. PANEL JOINTS MUST BE FLUSH. CORRECT ANY SQUEAKS BEFORE INSTALLATION OF HARDWOOD FLOORING.

WOOD/PANEL SUBFLOORS: (NWFA INSTALLATION GUIDELINES, SEC. II, CH. 4). CD EXPOSURE 1 PLYWOOD AND OSB EXPOSURE 1 SUBFLOOR PANELS ARE APPROPRIATE SUBFLOOR MATERIALS (GRADE STAMPED US PS1-95). SOLID BOARD SUBFLOORS SHOULD BE 1" X 6" NOMINAL, GROUP 1 DENSE SOFTWOODS, #2 COMMON, KD. MINIMUM SINGLE LAYER PANEL SUBFLOOR THICKNESS IS 5/8" PLYWOOD OR 23/32" OSB ON 16" O.C. JOISTS (APA STURD-I-FLOOR STAMPED). THE FLOORING MUST RUN PERPENDICULAR TO THE FLOOR JOISTS, OR 1/2" ADDITIONAL SUBFLOOR THICKNESS IS REQUIRED. SEE NWFA INSTALLATION GUIDELINES, SEC II, PART IV FOR INFORMATION ON OTHER JOIST SPACING AND PANEL THICKNESS REQUIREMENTS, ENGINEERED FLOORING SYSTEMS, ETC. WOOD SUBFLOOR SHOULD NOT EXCEED 12% M.C. (SEC IV, APX C). IF MOISTURE TESTS INDICATE MARGINAL MOISTURE PRESENCE BUT THE SUBFLOOR IS VISUALLY DRY, USE SOMERSET 25 ADHESIVE.

INTERIOR FINISH NOTES, EXISTING & RELOCATED MILLWORK

ALL INTERIOR FINISHES TO MEET REQUIREMENT OF CHAPTER 8, 2012 IBC PER TABLE 803.5, M OCCUPANCY, CLASS C RATED MATERIAL REQUIRED.

E. REFINISHING PROCEDURES
1) SOLVENT CLEAN ALL SURFACES **USING TSP, DENATURED ALCOHOL, OR LACQUER THINNER AS REQUIRED TO REMOVE ORIGINAL FINISH ENTIRELY.**

2) SAND ALL SURFACES, REMOVE DUST WITH TACK CLOTH AND SOLVENT CLEAN AGAIN AS NECESSARY.

3) SET NAILS AND/OR SCREWS AS NEEDED. GRIND NAILS AND/OR SCREW HEADS IF SETTING LEADS TO FURTHER DAMAGE.

4) FILL ALL NAIL HOLES, SCREW HOLES, CHIPS AND BREAKOUTS AROUND PEG HOLES **WITH BONDO® BODY FILLER. ALLOW PRODCUT TO CURE, THEN SAND LEVEL WITH ORIGINAL FIXTURE SURFACE.**

5) SPRAY APPLY ONE COAT OF PRIMER **ZINZER B-I-N SHELLAC BASE - BASE PRIMER.**

6) LIGHTLY SAND **ENITRE FIXTURE** WITH FINE SANDPAPER AND REMOVE DUST WITH TACK CLOTH.
7) FILL MINOR IMPERFECTIONS AND SCRATCHES WITH **BONDO® GLAZE**.

8) SAND MINOR IMPERFECTION FILLER., REMOVE DUST WITH TACK CLOTH AND SPOT PRIME.

9) SPRAY APPLY SECOND COAT OF PRIMER AS NEEDED. **SAME AS ABOVE**

10) FILL OPEN JOINTS AT CORNERS OF PANELS AND TRIM WITH HIGH QUALITY FAST DRYING ACRYLIC CAULK.SAND EXTRA CAULK TO BE INVISIBLE AS NECESSARY.

11) SPRAY APPLY ONE COAT OF FINISH PAINT BASE COLOR **{CC-1}**

12) LIGHTLY SAND, REMOVE DUST WITH TACK CLOTH, INSPECT FOR ADDITIONAL IMPERFECTIONS AND REPAIR AS ABOVE.

13) SPRAY APPLY SECOND COAT OF FINISH PAINT, COLOR AS SCHEDULED. **SAME AS ABOVE.**

INTERIOR FINISH AND MATERIAL LEGEND

ITEM	CODE	MATERIAL	MANUFACTURER	TYPE	REMARKS
WALL	W-1	PAINT	BENJAMIN MOORE	OC-117 SIMPLY WHITE, 549-1X REGAL INT EGGSHELL	APPLIED TO SALES FLOOR AND RESTROOM WALLS
	~~W-2~~	~~PAINT~~	~~BENJAMIN MOORE~~	~~BM ECO, LATEX EGGSHELL REGAL AQUAVELVET, 319-79 ATRIUM WHITE~~	~~STOCKROOM & MANAGER'S OFFICE~~
	W-3	PAINT	BENJAMIN MOORE	OC-117 SIMPLY WHITE, 551-1X REGAL SEMI GLOSS	APPLIED TO INTERIOR DOOR & WINDOW TRIMS
	~~W-4 (BID ALT)~~	~~CERAMIC TILE~~	~~DAL TILE / GROUT: BOSTIK~~	~~3" x 6" COLOR WHEEL CLASSIC ARCTIC WHITE 0190 WITH 1/16" GROUT JOINT~~	~~RESTROOM WALLS, RUNNING BOND (1 COVE, 16 TILE, 1 BULLNOSE) GROUT: BOSTIK BRIGHT WHITE H177, SANDED. BULLNOSE TOP @ RESTROOM WALLS, SEALANT: BOSTIK 100% PURE SILICONE.~~
	~~W-5~~	~~FRP~~	~~MARLITE; CONTACT: 714.523.2500~~	~~P-100 WHITE~~	~~INSTALL TO 8'-0" AFF @ MOP SINK~~
	~~W-6~~	~~WOOD CLADDING~~	~~TBD~~	~~TBD~~	~~ALTERNATE FINISH. OWNER PROVIDED / VENDOR INSTALLED.~~
	W-7	FIRE TAPE + PRIME	BY GC	FIRE TAPE & PRIME AT GYPSUM WALLS ONLY, NEW & EXISTING	@ STOCK ROOM
FLOOR	F-1	UN-FINISHED NORTHERN WHITE OAK FLOORING	TBD	PB CUSTOM COLOR - TBD	3/4" THICK X 8" WIDE SOLID UN-FINISHED PLAIN SAWN NORTHERN WHITE OAK SELECT AND BETTER, TONGUE AND GROOVE, END MATCHED, MICRO BEVELED, RANDOM LENGTH PLANK FLOORING (48" MIN - 84" MAX), BLIND NAIL TO PLYWOOD SUB FLOOR. FINISH IN PLACE.
	F-2	NEW WOOD FLOOR	LOCAL SOURCE	MATCH F-1 EXISTING WOOD	FILL ANY HOLES WITH DARK BROWN EPOXY AND REFINISH WITH 3 COATS BONAKEMI BONA NATURALE, MATTE FINISH. IF NATURAL FINISH IS NOT ABLE TO BE ACHIEVED, USE W SERVICES CHOCOLATE STAIN
	~~F-3~~	~~CERAMIC FLOOR TILE~~	~~TILE: DAL TILE~~	~~URBAN TEXTURE PORCELAIN TILE 2" HEXAGON. 99974120 GRAPHITE MATTE~~	~~GROUT, BOSTIK - H195 SHADOW~~
	~~F-4~~	~~INFILL @ (E) CONCRETE INLAYS~~	~~TARKETT~~	~~VINYL COMPOSITE TILE, WHITE/GRAY EXPRESSIONS #1318, 12" x 12" x 1/8".~~	~~IF EXISTING PRODUCT IS NO LONGER AVAILABLE, PROVIDE SAMPLES OF PROPOSED MATCH~~
	~~F-5~~	~~CARPET~~	~~SHAW CONTRACT PETO II~~	~~SLATE #71525~~	~~@ MANAGER'S OFFICE~~
	F-6	COCOA MAT	PAWLING	17 NATURAL	EM-301 @ 5/8" THICK
	~~F-7~~	~~CONCRETE SEALER (SALES)~~	~~DIVERSEY~~	~~3 COATS JONCRETE MATTE SEALER~~	~~FLOOR TO BE CLEANED PRIOR TO APPLICATION. CLEAN WITH A WET MOP AND WATER. JONCRETE IS TO BE APPLIED STRAIGHT FROM THE CONTAINER, NO WATER ADDED. APPLY WITH A CLEAN MOP OR SHEEPSKIN PAD. 3 COATS. ALLOW TO DRY 2 HOURS BETWEEN COATS.~~
	~~F-8~~	~~CONCRETE SEALER (STOCK)~~	~~MONOPOLE INC., MONOCHEM~~	~~AQUASEAL W20, CLEAR MATTE~~	~~PROVIDE 2 COATS ON ALL NEW PATCHWORK / TRANSITION RAMPS @ B.O.H. CONCRETE FLOORING PER MFR. SPECS.~~
CEILING	C-1	PAINT	BENJAMIN MOORE	OC-117 SIMPLY WHITE, 547-1X REGAL INT FLAT	AT ALL GWB CEILINGS INCLUDING, TOILET ROOMS & CORRIDOR. REFER TO RCP
	~~C-2~~	~~PAINT~~	~~BENJAMIN MOORE~~	~~OC-117 SIMPLY WHITE / DRYFALL 395-1X LATEX DRYFALL FLAT~~	~~AT ALL SALES AREA EXPOSED STRUCTURE (UON). REFER TO RCP.~~
BASE	B-1	WOOD WALL BASE	FIXTURE CONTRACTOR	5" x 3/4" BASE. PRIMED [W-3]	BASE IS MFR. FINISHED, MILLWORK INSTALLER TO SCRIBE BASE TO FLOOR. SEE INTERIOR DETAILS FOR PROFILE.
	~~B-2~~	~~COVED VINYL BASE~~	~~BURKE FLOORING~~	~~#701P, BLACK COVE~~	~~4" HIGH @ STOCKROOM & BOH AS REQ'D @ AREAS OF DEMOLITION AND (N) CONSTRUCTION, SEE INTERIOR DETAILS FOR PROFILE.~~
	~~B-3 (BID ALT)~~	~~CERAMIC TILE COVED BASE~~	~~DAL TILE / GROUT: BOSTIK~~	~~COLOR WHEEL CLASSIC ARCTIC WHITE 0190 WITH 1/16" GROUT JOINT~~	~~TILE SCR-L-3601 AT OUTSIDE CORNERS, MITER AT INSIDE CORNERS, SEE INTERIOR DETAILS. GROUT: BOSTIK BRIGHT WHITE H177, SANDED. SEALANT: BOSTIK 100% PURE SILICONE.~~
	B-4	1/8" RUBBER COVE BASE	BURKE FLOORING	BURKE BASE RUBBER WALL BASE TYPE TS; COLOR BLACK#701	4" HIGH AT STOCKROOM
MISCELLANEOUS	WE-6	ACCENT PAINT	CREATIVE PAINT MODERN MASTERS MIX CONTACT: NICK WATERS 415.666.3380	CUSTOM BLEND FOR 1 GALLON (128 OZ): 71 OZ ENGLISH BROWN 51 OZ STEEL GRAY 6 OZ VENITIAN BLUE	APPLIED TO RUG AND CURTAIN FLIPPERS
	CC-1	CABINET COAT PAINT (13 STEP PROCESS)	BENJAMIN MOORE	OC-117 SIMPLY WHITE, SEMI-GLOSS BASE: CC4560-G	APPLIED TO ALL EXISTING TO REMAIN AND TO BE RELOCATED MILLWORK. REFER TO INTERIOR FINISH NOTES, THIS SHEET , FOR 13-STEP PROCESS.
	CT-1	STONE COUNTERTOP	SAJO	ABSOLUTE BLACK GRANITE , LEATHER FINISH	PER MILLWORK VENDOR SHOP DRAWINGS
STOREFRONT + EXTERIOR	SF-1	STOREFRONT SYSTEM PAINT	BENJAMIN MOORE	ONYX AURA, SATIN FINISH	SPRAY APPLIED TO EXISTING STOREFRONT SYSTEM, INTERIOR AND EXTERIOR; FILL ANY HOLES
	SF-2	STOREFRONT FACADE PAINT	BENJAMIN MOORE AURA EXTERIOR	FOG MIST OC-31, LRV 71.6, SATIN FINISH 1	SPRAY APPLY TO BRICK, CORNICE, CAP AND WOOD SPANDREL
	~~SB-1~~	~~GRANITE STONE BASE~~	~~LOCAL SOURCE~~	~~WASHINGTON BLACK BASALT - FLAMED FINISH; 1/2" OR 3/4" THICK, MINIMUM HORIZONTAL PIECE LENGTH 12". BID ALT: ABSOLUTE BLACK LEATHERED~~	~~INSTALLED BY STONE MASON, SUBMIT STONE JOINT LAYOUT FOR REVIEW AND APPROVAL BASED ON ACTUAL FIELD VERIFIED BACKERBOARD DIMENSIONS. ALL EXPOSED EDGES TO BE FLAMED FINISH. GROUT: LATICRETE RAVEN.~~
	~~GL-1~~	~~GLAZING - LOW - E, INSULATED~~	~~PPG INDUSTRIES, INC.~~	~~SOLARBAN 72 COATING ON STARPHIRE ULTRA-CLEAR GLASS~~	~~1/4" CLEAR STARPHIRE, LOW-E COATING ON #2 SURFACE 1/2" AIR SPACER, FINISH: BLACK 1/4" CLEAR STARPHIRE~~
	GL-2	WINDOW FILM	3M	MILKY MILKY	APPLY TO INTERIOR OF GLASS
	GL-3	WINDOW FILM	3M	PRESTIGE 70 SOLAR FILM	APPLY TO INTERIOR OF GLASS
	AW-1	FABRIC AWNING	SUNBRELLA	SLATE	NEW AWNING FABRIC, REPAINT FRAMES SF-1 TO MATCH STOREFRONT

zebra
ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.: 651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS: PERMIT

REGISTERED ARCHITECT CERTIFICATE NO. 49829 ZACHARY B. SHIRK Date Signed 01/13/2022 ARIZONA U.S.A. Expires: 6/30/2024

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME: FINISH SCHEDULE & LEGEND

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.: A611

DIVISION 0 – CONDITIONS OF THE CONTRACT

007200	CONTRACT AND GENERAL CONDITONS.

DIVISION 1 – GENERAL REQUIREMENTS

011000	SUMMARY
013119	PROJECT MEETINGS
013300	SUBMITTAL PROCEDURES
014500	QUALITY CONTROL
015000	TEMPORARY FACILITIES AND CONTROLS
016000	PRODUCT REQUIREMENTS
017329	PATCHING AND REPAIR
017700	CLOSEOUT PROCEDURES

DIVISION 2 – SITE WORK

024119	SELECTIVE DEMOLITION

DIVISION 3 – CONCRETE

035300	CEMENTITIOUS OVERLAY
035416	CEMENTITIOUS UNDERLAYMENT

DIVISION 4 – MASONRY

044216	MECHANICAL ANCHORED STONE VENEER - NOT USED

DIVISION 5 – METALS

051200	STRUCTURAL STEEL
054000	COLD FORMED METAL FRAMING
055000	METAL FABRICATIONS
055019	ARCHITECTURAL STEEL FABRICATIONS - NOT USED
055109	DESIGN BUILD STAIRS - NOT USED
055141	ARCHITECTURAL STAIRS AND RAILINGS - NOT USED
057000	ORNAMENTAL METAL - NOT USED

DIVISION 6 – WOOD & PLASTICS

061000	ROUGH CARPENTRY
062000	FINISH CARPENTRY

DIVISION 7 – THERMAL & MOISTURE PROTECTION

070150	ROOF PATCHING AND REPAIR
072100	BUILDING INSULATION
076200	SHEET METAL FLASHING AND TRIM
078400	FIRESTOPPING
078500	FIRE RATED JOINTS
079200	JOINT SEALANTS

DIVISION 8 – DOORS & WINDOWS

081113	HOLLOW METAL DOORS AND FRAMES
081400	WOOD DOORS
083100	ACCESS DOORS
084113	ALUMINUM ENTRANCES & STOREFRONTS - BY LANDLORD
087100	DOOR HARDWARE
088000	GLAZING - NOT USED

DIVISION 9 – FINISHES

092200	LIGHTGAUGE METAL SUPPORT FRAMING
092400	VENEER PLASTER
092200	PORTLAND CEMENT PLASTER
092843	GYPSUM SHEATHING
092900	GYSPSUM BOARD
093000	TILE
096429	SITE FINISHED WOOD FLOORING
096500	RESILIENT FLOORING
096513	RESILIENT BASE
096516	RESILIENT TREADS AND RISERS - NOT USED
096800	CARPETING
097736	FRP WALL PANELS - NOT USED
098100	ACOUSTICAL INSULATION AND SEALANTS
099000	PAINTING
099733	CONCRETE SEALER

DIVISION 10 – SPECIALTIES

102613	CORNER GUARDS
102813	TOILET ACCESSORIES
104416	FIRE EXTINGUISHERS AND CABINETS
107313	FABRIC AWNINGS - NOT USED

DIVISION 11 – EQUIPMENT

NOT USED

DIVISION 12 – EQUIPMENT

123661	SOLID SURFACING - NOT USED
124813	CARPET ENTRY MATS- NOT USED

DIVISION 13 – SPECIAL CONTRUCTION

NOT USED

DIVISION 14 – CONVEYING SYSTEMS

NOT USED

DIVISION 15 – MECHANICAL & PLUMBING

SEE PLUMBING SPECIFICATIONS ON THE DRAWINGS

DIVISION 16 – ELECTRICAL

SEE ELECTRICAL SPECIFICATIONS ON THE DRAWINGS

DIVISION 0 – CONDITIONS IF THE CONTRACT

A. THE WILLIAMS - SONOMA, INC. MASTER CONTRACTOR AGREEMENT BASED ON PAYMENT BY STIPULATED SUM SHALL GOVERN THE WORK. COPIES ARE AVAILABLE FROM THE OWNER UPON REQUEST.

DIVISION 1 – GENERAL REQUIREMENTS

011000 SUMMARY

A. USE OF PREMISES:
1. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL HAVE FREE AND COMPLETE USE OF THE SITE.
2. LIMIT NOISE PRODUCING WORK TO THE HOURS BETWEEN 7 AM AND 7 PM MONDAY THROUGH FRIDAY, AND 9 AM TO 6 PM ON SATURDAYS AND SUNDAYS, UNLESS OTHERWISE APPROVED THE OWNER AND LANDLORDS ON SITE - REPRESENTATIVE. COOPERATE WITH OWNER TO MINIMIZE NOISE IMPACTS ON ADJACENT PROPERTIES.

B. PERFORM WORK WITHIN THE CONTRACT TIME STATED IN THE OWNER / CONTRACTOR AGREEMENT.

C. COORDINATE CONSTRUCTION SCHEDULE AND OPERATIONS WITH THE OWNER AND LANDLORDS ON SITE REPRESENTATIVE.

D. SEPARATE WORK:
1. REFER TO THE RESPONSIBILITY MATRIX INDICATED ON THE DRAWINGS.
2. PERFORM WORK SO AS TO ALLOW THE PERFORMACE OF WORK BY OTHER CONTRACTIRS.

E. PRODUCTS FURNISHED BY OWNER FOR INSTALLATION BY THE CONTRACTOR.
1. REFER TO RESPONSIBILITY MATRIX INDICATED ON THE DRAWINGS.
2. COORDINATE WORK TO FACILITATE INSTALLATION OF PRODUCTS FURNISHED BY THE OWNER FOR INSTALLATION BY THE CONTRACTOR.
3. OWNER'S RESPONSIBILITIES:
a. ARRANGE FOR AND DELIVER SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, TO CONTRACTOR.
b. ARRANGE AND PAY PRODUCT DELIVERY TO SITE.
c. UPON DELIVERY, INSPECT PRODUCTS JOINTLY WITH CONTRACTOR.
d. SUBMIT CLAIMS FOR TRANSPORTATION DAMAGE.
e. ARRANGE FOR REPLACEMENT OF DAMAGED, DEFECTIVE, OR MISSING.
f. ARRANGE FOR MANUFACTURER'S WARARANTIES, INSPECTIONS AND SERVICE.
4. CONTRACTOR'S RESPONSIBILITIES:
a. REVIEW SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
b. RECEIVE AND UNLOAD PRODUCTS AT SITE; INSPECT FOR COMPLETENESS, FOR DAMAGE, JOINTLY WITH OWNER.
c. HANDLE, STORE, INSTALL AND FINISH PRODUCTS.
d. REPAIR OR REPLACE ITEMS DAMAGED BY WORK OF THIS CONTRACT.

F. APPLICATIONS FOR PAYMENT: SUBMIT THREE COPIES OF EACH APPLICATION UNDER PROCEDURES OF SECTION 013300 ON AIA G702 - APPLICATION AND CERTIFICATE FOR PAYMENT, OR A FORM APPROVED BY THE ARCHITECT AND THE OWNER.

G. COORDINATION:
1. COORDINATE WORK TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER.
2. COORDINATE SPACE REQUIREMENTS FOR MECHANICAL AND ELECTRICAL SYSTEMS. MAKE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY, AND MAXIMIZE ACCESSIBILITY FOR MAINTENANCE, REPAIR, AND OTHER INSTALLATIONS.
3. EXECUTE CUTTING AND PATCHING TO INTEGRATE ELEMENTS OF THE WORK. REMOVE ILL-TIMED AND DEFECTIVE WORK AND REPLACE WITH NEW WORK CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. UNCOVER DEFECTIVE AND NONCONFORMING WORK AND FURNISH SAMPLES AS REQUIRED FOR TESTING.
5. SEAL PENETRATIONS THROUGH FLOORS, WALLS, AND CEILINGS.

013119 PROJECT MEETINGS

A. PROGRESS MEETINGS: ATTEND PROGRESS MEETINGS CALLED BY THE OWNER/ ARCHITECT THROUGHOUT THE PROGRESS OF THE WORK.
B. CONVENE A PRE-INSTALLATION MEETING WHEN IT IS SPECIFIED FOR A CERTAIN PORTION OF THE WORK. REQUIRE ATTENDANCE OF ENTITIES DIRECTLY AFFECTING, OR AFFECTED BY, THE WORK OF THE SECTION.

013300 SUBMITTAL PROCEDURES

A.SUBMITTAL PROCEDURE:
1. REQUIRED SUBMITTALS ARE IDENTIFIED IN THE CONTRACT DOCUMENTS, INCLUDING THOSE THAT REQUIRE APPROVAL BY THE OWNER.
2. IDENTIFY DEVIATIONS FROM CONTRACT DOCUMENTS. LEAVE SPACE FOR CONTRACTOR AND ARCHITECT REVIEW STAMPS.
3. REVIEW AND SIGN EACH SUBMITTAL PRIOR TO SUBMITTAL TO THE ARCHITECT. UNSIGNED SUBMITTALS WILL BE RETURNED BY THE ARCHITECT.
4. UNLESS SPECIFIED OTHERWISE, SUBMIT THE NUMBER OF SUBMITTALS THE CONTRACTOR REQUIRES, PLUS ONE WHICH WILL BE RETAINED BY THE ARCHITECT.
5. TRANSMIT EACH ITEM TO THE ARCHITECT UNDER THE CONTRACTOR'S STANDARD TRANSMITTAL FORM AS APPROVED BY THE ARCHITECT. INCLUDE PROJECT NAME, CONTRACTOR NAME, SUBCONTRACTOR OR SUPPLIER NAME, AND DRAWING SHEET, DETAIL NUMBER, OR SPECIFICATION SECTION NUMBER CORRESPONDING TO THE SUBMITTAL AS APPROPRIATE.
6. MAKE SUBMITTALS AS REQUIRED TO CAUSE NO DELAY IN THE WORK. ALLOW SUFFICIENT TIME FOR POSSIBLEREVISION AND RESUBMITTAL OF REJECTED SUBMITTALS. COORDINATE SUBMITTAL OF RELATED ITEMS.
7. REVISE AND RESUBMIT REJECTED SUBMITTALS AS REQUIRED TO OBTAIN APPROVAL, IDENTIFYING CHANGES MADE SINCE PREVIOUS SUBMITTAL.

B.SHOP DRAWINGS, PRODUCT DATA AND SAMPLES:
1. SHOP DRAWINGS:
a. NUMBER OF COPIES: UNLESS OTHERWISE SPECIFIED, SUBMIT TO THE ARCHITECT ONE LEGIBLE RIGHT-READING REPRODUCIBLE AND ONE COPY FOR REVIEW, EXCEPT THAT SHOP DRAWINGS 11"X17" OR SMALLER MAY BE SUBMITTED IN THE FORM OF EITHER TWO BLACKLINE OR ELECTROSTATIC BOND COPIES, OR AN ELECTRONIC11"X17" PDF POSTING TO PROJECTWEB.
b. THE ARCHITECT WILL RETURN ONE COPY TO CONTRACTOR WITH CORRECTIONS, NOTATIONS AND ARCHITECT'S STAMP INDICATING ACTION TO BE TAKEN.
c. UNLESS SPECIFIED OTHERWISE, SHOP DRAWINGS SHALL SHOW QUANTITIES, MATERIALS, METHODS OF ASSEMBLY, ADJACENT CONSTRUCTION, DIMENSIONS, AND ALL OTHER APPROPRIATE INFORMATION TO FULLY ILLUSTRATE THE WORK.
2. PRODUCT DATA:
a. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS AND OTHER DATA; SUPPLEMENT MANUFACTURE'S STANDARD DATA TO PROVIDE INFORMATION UNIQUE TO THE WORK.
b. SUBMIT THE NUMBER OF COPIES WHICH CONTRACTOR REQUIRES, PLUS 2 COPIES WHICH WILL BE RETAINED BY THE ARCHITECT; EXCEPT THAT ELECTRONIC PDF COPIES MAY BE POSTED TO PROJECTWEB.
3. SAMPLES:
a. SUBMIT SAMPLES AS SPECIFIED IN THE TECHNICAL SECTIONS.
b. INCLUDE IDENTIFICATION ON EACH SAMPLE GIVING FULL INFORMATION.
c. SUBMIT THREE SAMPLES, ONE OF WHICH WILL BE RETAINED BY ARCHITECT, UNLESS INDICATED OTHERWISE IN THE TECHNICAL SECTION.

C. CERTIFICATES: SUBMIT THE ORIGINAL SIGNED VERSION TO THE ARCHITECT.

014500 QUALITY CONTROL
A. STANDARDS: COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
B. PERFORM ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE WORK.
C. PERFORM WORK WITH PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.
D. MOCK-UPS
1. PROVIDE MOCK-UPS AS SPECIFIED IN THE INDIVIDUAL SPECIFICATION SECTIONS. PROVIDE ADDITIONAL MOCK-UPS, AS REQUIRED BY THE ARCHITECT, UNTIL APPROVAL IS OBTAINED.
2. DO NOT PROCEED WITH SUBSEQUENT WORK UNTIL APPROVAL OF THE MOCK-UP IS OBTAINED.
3. APPROVAL OF MOCK-UP SHALL BE THE STANDARD OF WORKMANSHIP AND MATERIALS FOR THE REMAINDER OF THE WORK SIMILAR TO THE MOCK-UP.
4. MAINTAIN MOCK-UP IN APPROVED CONDITION, UNTIL DIRECTED OTHERWISE.
5. UNLESS SPECIFIED OTHERWISE, REMOVE MOCK-UP AT COMPLETION, WHEN DIRECTED BY ARCHITECT.
E. INSTALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONFLICT EXISTS BETWEEN MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFIED REQUIREMENTS, NOTIFY THE ARCHITECT IMMEDIATELY.
F. EXAMINATION PRIOR TO INSTALLATION:
1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
G. TESTING LABORATORY SERVICES:
1. WHERE THE SCOPE OF THE WORK REQUIRES, THE OWNER WILL ARRANGE FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO INSPECT AND TEST THE WORK TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS. REPORTS OF ALL INSPECTIONS AND TESTS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
2. CONTRACTOR'S RESPONSIBILITIES:
a. COOPERATE WITH TESTING LABORATORY PERSONNEL, AND FURNISH ACCESS, TOOLS, SAMPLES, CERTIFICATIONS, TEST REPORTS, DESIGN MIXES, EQUIPMENT, STORAGE, AND ASSISTANCE AS REQUESTED BY THE TESTING LABORATORY.
b. NOTIFY ARCHITECT AND TESTING LABORATORY 48 HOURS PRIOR TO EXPECTED TIME FOR OPERATIONS REQUIRING INSPECTION AND TESTING. WHEN TESTS OR INSPECTIONS CANNOT BE PERFORMED, THROUGH THE FAULT OF THE CONTRACTOR, REIMBURSE THE OWNER FOR THE ADDITIONAL COSTS INCURRED.
c. REMOVE AND REPLACE ALL WORK FOUND NOT COMPLYING WITH THE CONTRACT DOCUMENTS. REMEDIES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CODE REQUIREMENTS.
d. IF INITIAL TESTS AND INSPECTIONS INDICATE DEFICIENT WORK, THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR THE COSTS OF ALL SUBSEQUENT TESTS AND INSPECTIONS RELATED TO THE DEFICIENCY.
e. ALL DAMAGE WHICH MAY OCCUR TO THE WORK AS A RESULT OF NORMAL TESTING OPERATIONS SHALL BE REPAIRED TO MATCH SURROUNDING SURFACES.
f. SCHEDULE TESTING AND INSPECTION SO THAT THE WORK OF TESTING AND INSPECTION PERSONNEL WILL BE AS CONTINUOUS AND BRIEF AS POSSIBLE.
g. REIMBURSE THE OWNER FOR TRAVEL AND LODGING EXPENSES INCURRED FOR TESTING AND INSPECTION SERVICES PERFORMED OUTSIDE A RADIUS OF 100 MILES OF THE SITE.
3. TESTS AND INSPECTIONS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.
4. CONTRACTOR'S CONVENIENCE TESTING: INSPECTION AND TESTING PERFORMED EXCLUSIVELY FOR THE CONTRACTOR'S CONVENIENCE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

015000 TEMPORARY FACILITIES AND CONTROLS
A. TEMPORARY UTILITIES: PROVIDE TEMPORARY UTILITIES, SERVICES, AND CONSTRUCTION AS REQUIRED TO PERFORM THE WORK.COORDINATE ALL TEMPORARY FACILITIES AND CONTROLS WITH THE OWNER/ LANDLORDS ON-SITE REPRESENTATIVE.
1. ELECTRICITY: CONNECT TO EXISTING SERVICE. OWNER WILL PAY COSTS OF ENERGY USED. TAKE MEASURES TO CONSERVE ENERGY.
2. LIGHTING: PERMANENT LIGHTING MAY BE USED DURING CONSTRUCTION. PROVIDE ADDITIONAL TEMPORARY LIGHTING AS REQUIRED. MAINTAIN LIGHTING AND MAKE ROUTINE REPAIRS. (EXCEPT AS OTHERWISE SPECIFIED, PROVIDE ARTIFICIAL LIGHTING FOR ALL AREAS OF WORK WHEN NATURAL LIGHT IS NOT ADEQUITE FOR WORK.)
3. HEATING AND VENTILATION: PERMANENT SYSTEM MAY BE USED. THE OWNER WILL PAY FOR THE COST OF ENERGY USED. MAINTAIN SYSTEM DURING OPERATION.
4. TELEPHONE: PERMANENT SYSTEM MAY BE USED.
5. WATER: UTILIZE EXISTING FACILITIES. OWNER WILL PAY FOR WATER USED.
B. CONTROLS:
1. DUST CONTROL- PROVIDE POSITIVE METHODS AND APPLY DUST CONTROL MATERIALS TO MINIMIZE RAISING DUST FROM CONSTRUCTION OPERATIONS, AND PROVIDE POSITIVE MEANS TO PREVENT AIRBORNE DUST FROM DISPERSING INTO THE ATMOSPHERE.
2. WATER CONTROL: COMPLY WITH APPLICABLE JURISDICTIONAL REQUIREMENTS REGARDING WATER USAGE, CONSERVATION, DETENTION, POLLUTION, AND PERMITS.
C. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO SITE AND WITHIN SITE TO PROVIDE UNINTERRUPTED ACCESS:
1. TO TEMPORARY CONSTRUCTION FACILITIES, STORAGE AND WORK AREAS.
2. FOR USE BY PERSONS AND EQUIPMENT INVOLVED IN CONSTRUCTION OF PROJECT.
3. FOR USE BY EMERGENCY VEHICLES.
4. TO MINIMIZE IMPACT ON ADJACENT OPERATIONS.
D. FIRE SAFETY: COMPLY WITH APPLICABLE PROVISIONS OF UFC ARTICLE 87 FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
E. TEMPORARY CONSTRUCTION:
1. OBTAIN APPROVAL FROM OWNER FOR ALL MODIFICATIONS TO EXISTING SYSTEMS OR FACILITIES NOT INDICATED.
2. REMOVE TEMPORARY SYSTEMS OR FACILITIES WHEN USE IS NO LONGER REQUIRED. CLEAN AND REPAIR DAMAGE CAUSED BY INSTALLATION OR USE OF TEMPORARY SYSTEMS OR FACILITIES.
F. CONSTRUCTION CLEANING:
1. CONTROL ACCUMULATION OF WASTE MATERIALS AND RUBBISH. DAILY DISPOSE OF OFF-SITE.
2. MAINTAIN AREAS FREE OF DUST AND OTHER CONTAMINANTS DURING FINISHING OPERATIONS.

016000 PRODUCT REQUIREMENTS
A. DELIVERY, STORAGE, AND HANDLING:
1. TRANSPORT AND HANDLE PRODUCTS BY METHODS TO AVOID PRODUCT DAMAGE.
2. MANUFACTURED PRODUCTS SHALL REMAIN IN MANUFACTURER'S CONTAINERS OR PACKAGING, UNTIL READY FOR INSTALLATION.
3. UNLESS SPECIFIED OTHERWISE, STORE MANUFACTURED PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. PRODUCT OPTIONS AND SUBSTITUTIONS:
1. FURNISH PRODUCTS SPECIFIED, EXCEPT WHERE "OR APPROVED" IS USED, SUBSTITUTE PRODUCTS MAY BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
2. SUBSTITUTIONS WILL BE CONSIDERED ONLY FOR THE FOLLOWING REASONS:
a. A PRODUCT BECOMES UNAVAILABLE DUE TO NO FAULT OF THE CONTRACTOR.
b. SUBSEQUENT INFORMATION OR CHANGES INDICATE THAT THE SPECIFIED PRODUCT WILL NOT PERFORM AS INTENDED.
c. A SUBSTITUTE PRODUCT WILL BE IN THE OWNER'S BEST INTEREST OR PROVIDE A COST SAVINGS TO THE OWNER.
3. A SUBSTITUTION REQUEST CONSTITUTES A REPRESENTATION THAT CONTRACTOR:
a. HAS INVESTIGATED PROPOSED PRODUCT AND HAS DETERMINED THAT IT MEETS OR EXCEEDS, IN ALL RESPECTS,THE SPECIFIED PRODUCT.
b. SHALL PROVIDE THE SAME WARRANTY FOR SUBSTITUTION AS FOR SPECIFIED PRODUCT.
c. WILL COORDINATE INSTALLATION AND MAKE OTHER CHANGES, WHICH MAY BE REQUIRED FOR WORK TO BE COMPLETE IN ALL RESPECTS.
d. WAIVES CLAIMS FOR ADDITIONAL COSTS, WHICH MAY SUBSEQUENTLY BECOME APPARENT.
e. AGREES TO PAY ALL COSTS OF REDESIGN RELATED TO THE SUBSTITUTION.
4. SUBSTITUTION REQUESTS SHALL BE SUBMITTED ONLY THROUGH THE GENERAL CONTRACTOR.
5. DOCUMENTATION:
a. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS.
b. REQUESTS FOR SUBSTITUTION SHALL BE MADE ON SUBSTITUTION REQUEST FORM FOUND AT THE END OF THESE SPECIFICATIONS.
c. LIMIT EACH REQUEST TO ONE PROPOSED PRODUCT OR SYSTEM.
6. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN THEY ARE INDICATED OR IMPLIED ON SHOP DRAWINGS OR PRODUCT DATA SUBMITTALS.
7. ARCHITECT WILL DETERMINE ACCEPTABILITY OF PROPOSED SUBSTITUTION, AND WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION WITHIN A REASONABLE TIME.

017329 PATCHING AND REPAIR
A. REPAIR EXISTING SURFACES AND CONSTRUCTION AS NECESSARY TO MAKE WORK COMPLETE, WITH ALL COMPONENTS MATCHING AND CONSISTENT.
B. PROVIDE A SMOOTH, EVEN, AND INVISIBLE TRANSITION TO NEW CONSTRUCTION. WHEN FINISHED SURFACES ARE CUT SO THAT AN INVISIBLE TRANSITION WITH NEW WORK IS NOT POSSIBLE, TERMINATE EXISTING SURFACE ALONG THE NEAREST BREAK LINE, JOINT, OR CORNER.
C. PATCHING OF CONCRETE SLABS ON GRADE:
1. ENSURE THAT BELOW GRADE CONSTRUCTION IS COMPLETE IN THE SLAB AREA TO BE PATCHED. REPLACE EXISTING SUBGRADE MATERIALS TO MATCH EXISTING. REPLACE AND MAKE CONTINUOUS VAPOR BARRIERS AND OTHER SIMILAR CONSTRUCTION DISTURBED OR DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS. RECOMPACT EXISTING SUBGRADE TO 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. PATCH SLAB WITH CONCRETE HAVING A MINIMUM 28 DAY STRENGTH OF 3000 PSI, UNLESS A GREATER STRENGTH REQUIREMENT IS INDICATED.
FINISH CONCRETE TO MATCH ADJACENT SURFACES.
MAJOR PATCHING PROCEDURES SHALL BE REVIEWED WITH THE ARCHITECT, PRIOR TO PROCEEDING.

017700 CLOSEOUT PROCEDURES
A. FINAL CLEANING:
1. THOROUGHLY CLEAN ALL SURFACES PRIOR TO FINAL ACCEPTANCE.
2. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH, AND CONSTRUCTION FACILITIES FROM THE SITE.
B. PROJECT RECORD DOCUMENTS:
1. MAINTAIN A COMPLETE SET OF RECORD DRAWINGS THAT CLEARLY AND NEATLY INDICATE EXACT INSTALLED LOCATIONS OF ITEMS THAT WILL BE CONCEALED IN THE WORK SUCH AS CONDUIT, PIPING, DUCTS, REINFORCING, MECHANICAL AND ELECTRICAL EQUIPMENT, AND SIMILAR ITEMS. SHOW ALL CHANGES FROM THE CONTRACT DOCUMENTS, AND ALL UNCOVERED EXISTING CONDITIONS THAT WILL BE SUBSEQUENTLY CONCEALED.
2. RECORD DRAWINGS SHALL BE USED FOR NO OTHER PURPOSE AND SHALL BE STORED SEPARATELY FROM THOSE USED FOR CONSTRUCTION.
3. DOCUMENTS SHALL BE IN SAME FORMAT AS THE CONSTRUCTION DOCUMENTS.
4. KEEP DOCUMENTS CURRENT; DO NOT PERMANENTLY CONCEAL ANY WORK UNTIL REQUIRED INFORMATION HAS BEEN RECORDED.
5. AT CONTRACT CLOSEOUT, SUBMIT DOCUMENTS WITH TRANSMITTAL LETTER CONTAINING DATE, PROJECT TITLE, CONTRACTOR'S NAME AND ADDRESS, LIST OF DOCUMENTS, AND SIGNATURE OF CONTRACTOR.
C. SUBMITTALS: IN ADDITION TO SUBMITTALS REQUIRED BY THE CONDITIONS OF THE CONTRACT, AND SUBMITTALS REQUIRED BY SECTION 013300, FURNISH SUBMITTALS REQUIRED BY GOVERNING AUTHORITIES, AND SUBMIT A FINAL STATEMENT OF ACCOUNTING GIVING TOTAL ADJUSTED CONTRACT SUM, PREVIOUS PAYMENTS, AND SUM REMAINING DUE.
D. OPERATION AND MAINTENANCE DATA:
1. SUBMIT COMPLETE DATA FOR EACH PIECE OF EQUIPMENT AND COMPONENT USED IN THE WORK.
2. SUBMIT OPERATION AND MAINTENANCE DATA FOR MECHANICAL AND ELECTRICAL SYSTEMS.
3. ARRANGE IN A BINDER WITH A SECTION FOR EACH SYSTEM.
E. WARRANTIES, GUARANTEES AND BONDS:
1. SUBMIT ALL MANUFACTURER WARRANTIES.
2. FURNISH WRITTEN GUARANTEE, FROM EACH SUBCONTRACTOR PERFORMING WORK COVERED BY THE ADDITIONAL GUARANTEE REQUIREMENTS SPECIFIED IN THE TECHNICAL SECTIONS. UNLESS SPECIFIED OR APPROVED OTHERWISE, THE GUARANTEE SHALL COMMENCE ON THE DATE OF SUBSTANTIAL COMPLETION.
3. EACH GUARANTEE SHALL BE SIGNED, AND SHALL STATE THAT THE WORK UNDER GUARANTEE WAS INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL FOR THE PERIOD OF TIME SPECIFIED, AND THAT ALL DEFECTS WILL BE PROMPTLY REPAIRED WITHOUT ADDITIONAL COST TO THE OWNER.
F. SPARE PARTS AND MAINTENANCE MANUALS: FURNISH PRODUCTS, SPARE PARTS, AND MAINTENANCE MATERIALS IN QUANTITIES SPECIFIED IN EACH SECTION, IN ADDITION TO THAT USED FOR CONSTRUCTION OF WORK. COORDINATE WITH OWNER; DELIVER TO PROJECT SITE AND OBTAIN RECEIPT PRIOR TO FINAL PAYMENT.

DIVISION 2 – SITEWORK

024119 SELECTIVE DEMOLITION
A. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE THE WORK. WHERE DEMOLITION EXCEEDS THAT INDICATED, VERIFY SUCH DEMOLITION WITH THE ARCHITECT PRIOR TO PROCEEDING. DEMOLITION WORK SHALL BE COORDINATED WITH THE LANDLORDS ON-SITE REPRESENTATIVE.
B. PROTECT EXISTING STRUCTURAL MEMBERS. CONTACT THE ARCHITECT PRIOR TO MODIFYING STRUCTURAL MEMBERS BEYOND THE EXTENT INDICATED. CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF CONTINUED DEMOLITION OPERATIONS MIGHT ENDANGER THE EXISTING STRUCTURE.
C. DURING DEMOLITION OPERATIONS, NOTIFY THE ARCHITECT OF ALL CONDITIONS THAT DIFFER SUBSTANTIALLY FROM THOSE INDICATED, SPECIFIED, OR EXPECTED. NOTIFY THE ARCHITECT IF PREVIOUSLY UNKNOWN OPERATIONAL, OR POTENTIALLY OPERATIONAL ELEMENTS, ARE UNCOVERED DURING DEMOLITION OPERATIONS. PERFORM NO DEMOLITION IN SUCH AREAS, UNLESS APPROVED BY THE ARCHITECT.
D. PROVIDE TEMPORARY SHORING AS REQUIRED TO SUPPORT EXISTING CONSTRUCTION AGAINST MOVEMENT OR OVERLOAD DURING DEMOLITION OPERATIONS, UNTIL PERMANENT SUPPORTS ARE IN PLACE.
E. EXCEPT WHERE NOTED OR SPECIFIED OTHERWISE, TAKE POSSESSION OF MATERIALS BEING DEMOLISHED, AND IMMEDIATELY REMOVE FROM SITE. DO NOT OVERLOAD EXISTING CONSTRUCTION TO REMAIN WITH DEMOLISHED MATERIALS.
F. CAREFULLY REMOVE, PROTECT, AND TURN OVER AS DIRECTED, MATERIALS AND COMPONENTS CLAIMED BY THE OWNER FOR SALVAGE. PRIOR TO DEMOLITION, CONTACT THE OWNER TO DETERMINE WHICH ITEMS WILL BE CLAIMED.
G. WHERE CUT EDGES OF THE EXISTING CONSTRUCTION WILL BE VISIBLE IN THE COMPLETED WORK, CUT IN UNIFORM STRAIGHT LINES. CONCRETE AND MASONRY SHALL BE SAW CUT OR CORE DRILLED.
H. CAREFULLY REMOVE, PROTECT, AND TURN OVER AS DIRECTED, MATERIALS AND COMPONENTS CLAIMED BY THE OWNER FOR SALVAGE. PRIOR TO DEMOLITION, CONTACT THE OWNER TO DETERMINE WHICH ITEMS WILL BE CLAIMED.
I. WHERE CUT EDGES OF THE EXISTING CONSTRUCTION WILL BE VISIBLE IN THE COMPLETED WORK, CUT IN UNIFORM STRAIGHT LINES. CONCRETE AND MASONRY SHALL BE SAW CUT OR CORE DRILLED.
J. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
K. UTILITY LINE DEMOLITION:
1. VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO DEMOLITION. COORDINATE ANY REQUIRED UTILITY SERVICE INTERRUPTIONS WITH THE LANDLORDS ON-SITE REPRESENTATIVE.
2. ABANDONED UNDERSLAB CONDUIT SHALL BE CUT OFF BELOW THE FINISHED SURFACE LINE, AND ALL CONDUCTORS SHALL BE REMOVED. PATCH AND FILL THE OPENING FLUSH WITH THE FINISH.
3. ABANDONED ELECTRICAL CONDUCTORS SHALL BE REMOVED BACK TO THE BRANCH CIRCUIT PANEL, UNLESS INDICATED OTHERWISE. ABANDONED CONDUIT WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED CONDUIT WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN.
4. ABANDONED UNDERSLAB PIPING SHALL BE REMOVED AND CUT OFF FLUSH WITH THE FLOOR LINE. PATCH FLUSH WITH THE FLOOR.
5. ABANDONED PIPING WHICH IS EXPOSED AND READILY ACCESSIBLE SHALL BE REMOVED. LEAVE ABANDONED PIPING WHICH IS CONCEALED IN EXISTING CONSTRUCTION TO REMAIN. CAP ALL EXPOSED ENDS.
6. INDICATE LOCATION OF DISCONNECTED UTILITIES ON THE PROJECT RECORD DRAWINGS AS SPECIFIED IN SECTION 017700.
L. LEAVE SITE IN A CONDITION ACCEPTABLE TO THE OWNER AT ALL TIMES. REMOVE DEMOLISHED MATERIALS FROM SITE DAILY AS WORK PROGRESSES. DO NOT OVERLOAD EXISTING STRUCTURE WITH DEMOLISHED MATERIALS.
M. REMOVAL OF EXISTING BONDED FLOOR FINISHES:
1. SCRAPE, GRIND AND OTHERWISE REMOVE EXISTING FLOOR FINISH AND BONDING MATERIALS AS NECESSARY TO RECEIVE NEW FLOOR FINISHES.
2. PREPARED SURFACE SHALL PRESENT A UNIFORM FLAT SURFACE READY TO RECEIVE THE NEW FLOOR FINISHES FREE OF TELEGRAPHING AND OTHER SURFACE IRREGULARITIES.
3. NEW FLOOR FINISHES SHALL NOT BE INSTALLED OVER EXISTING FLOOR FINISH MATERIALS UNLESS APPROV

DIVISION 3 - CONCRETE

4,000 PSI
5.5 SACK. DO NOT REDUCE CONCRETE BELOW 5.5 SACK EVEN IF ADDING FLY ASH
¾" ROCK
SAND
CEMENT
FLY ASH: NOT TO EXCEED 20%. DO NOT REDUCE CONCRETE BELOW 5.5 SACK EVEN IF ADDING FLY ASH
MRA: 26 OZ.
SLUMP: 5"H MINIMUM, NOT TO EXCEED 6"H
REINFORCEMENT: #4 REBAR MAT 18" X 18" MINIMUM.

AIR ENTRAINMENT: NONE

FINISH: NO MACHINES. PROVIDE ADEQUATE, EXPERIENCED FINISHERS FOR AN ALL HAND FINISH, HARD TROWEL FINISH. FINISHERS TO USE KNEE BOARDS-NOT SLIDERS. AFTER BULL FLOATING, THE NEXT 2 PASSES CAN BE TRADITIONAL TROWELING. SUBSEQUENT PASSES TO BE HARD SWEEPING FANS IN A RANDOM OVERLAPPING PATTERN, WORKING IN EVERY DIRECTION. MINIMUM OF 5 PASSES. APPLY ENOUGH PRESSURE TO GET A LOUD RINGING SOUND OUT OF THE TROWELS. NO TOP WATER TO BE APPLIED UNDER ANY CIRCUMSTANCES AT ANY STEP IN THE PROCESS. CONTROL JOINTS TO BE HAND CUT PER ARCHITECT'FS LAYOUT. NO PICTURE FRAME TO BE EVIDENT. TOOLS TO BE 1/2"H GROOVERS WITH 1/4"H RADIUS. EDGE TOOL RADIUS TO MATCH GROOVERS RADIUS. STRAIGHT EDGES ARE TO BE METAL. ALL FINISHERS TO HAVE THE SAME BRAND TOOLS FOR CONSISTENCY.

HAVE 5 GALLONS OF MASTERKURE ER50 ON HAND FOR LUBRICATION AT FINISHING ALONG WITH ALL NEW SPRAYERS.

ONLY A VERY FINE MIST IS TO BE APPLIED. MIX 1 PART MASTERKURE TO 5 PARTS WATER.

CURING: CONCRETE TO BE EXPOSED FOR A MINIMUM OF 2 DAYS WITH NO TRAFFIC.
PROTECTION: ¼" MASONITE TEMPERED BOTH SIDES. NO TAPE

SEALING: CONCRETE TO BE WET MOPPED WITH WATER ONLY UNTIL CLEAN. ALLOW TO DRY 2 HOURS AFTER CLEANING. APPLY 3 COATS OF JONCRETE MATTE SEALER PER MANUFACTURER'FS INSTRUCTIONS. MOP OR LAMB'FS WOOL PAD APPLICATION

GENERAL NOTES:
THE DESIGN INTENT FOR A WILLIAMS SONOMA FINISH IS TO HAVE A BRINDLE OR VARIEGATED APPEARANCE OF VENETIAN PLASTER. TO ACHIEVE THIS FINISH IT MUST BE APPROACHED AS AN ARCHITECTURAL MIX DESIGN SIMILAR TO A DECORATIVE CONCRETE COUNTER TOP.
THE APPROVED CONCRETE CONTRACTOR MUST HAVE EXPERIENCE WITH ARCHITECTURAL CONCRETE AND SUPER FLAT FLOORING WITH AT LEAST ONE WORKING SUPERVISOR WHO IS ACI CERTIFIED AS A FLATWORK TECHNICIAN.THE MIX DESIGN MUST HAVE SPECIFIC TOLERANCE AND THE BATCH PLANT MUST BE INFORMED THAT THE INTENDED USE IS FOR ARCHITECTURAL CONCRETE OVERLAY THAT IS SUPER FLAT AND TO BE "GHAND BURNED"H 5 TO 8 TIMES OVER SEVERAL HOURS. SUFFICIENT MAN POWER MUST BE PROVIDED AHEAD OF THE POUR TO PREP THE SLAB, CUSTOM CUT EXPANSION MATERIAL TO CUSTOM GRADES SET BY LASER.

AREAS TO RECEIVE WOOD FLOORING MUST BE PREPPED AND BLANKED OUT PRIOR TO THE FINAL POUR. CHECK LOCAL CODE REQUIREMENTS AND MALL REGULATIONS , MOST REQUIRE ALL FLOOR BLOCKING MATERIAL NOT FINISHED FLOOR BE FIRE RATED DIMENSIONAL
LUMBER AND PLYWOOD.
ALL ELECTRICAL CONDUITS MUST BE TRENCHED INTO THE SUB FLOOR SO THAT THE DECORATIVE TOPPING SLAB IS SLIPPING ON A FLAT PLANE. ANY EXPOSED CONDUITS WILL CRACK THE TOPPING SLAB AND READ THROUGH. ALL FLOOR BOXES MUST BE PRESET AND TO GRADE. FLOOR BOXES TO BE INSTALLED SQUARE TO CONTROL LINES.
ALL TRADES MUST BE OUT OF THE SPACE DURING CONCRETE PLACEMENT AND PROTECTION. A TYPICAL 7,500 SQFT SALES FLOOR TAKES 3 DAYS TO POUR AND FINISH BY A 10 MAN CREW. ALL HANDS WILL BE FLOATING, FINISHING, TOOLING , JOINTING , AND BURNING THE FINISH FOR AT LEAST AN 8 HOUR DAY. NO AIR ENTRAINMENT ADMIXTURES, PLASTICIZERS , OR ACCELERATORS MAY BE USED AS IT WILL ADVERSELY AFFECT THE FINAL FINISH.
THE INTENT IS TO DENSIFY THE SURFACE TOO BURNISH IN A VARIEGATED COLOR THAT APPEARS 3 DIMENSIONAL.
WHILE CUTTING AND TOOLING JOINTS USE OF DIMENSIONAL LUMBER IS EXPRESSLY FORBIDDEN, AN ALUMINUM BOX BEAM MUST BE USED AND JOINTS NEED TO TOOLED WITH A 1/2"H JOINER THE 1/4" RADIUS TO CONTROL PLASTIC SHRINKAGE CRACKS ALL REENTRANT CORNERS ARE TO RECEIVE A PAIR OF 24 LONG #4 REBAR PLACED DIAGONALLY TO THE INSIDE CORNER ,WIRED TO REBAR MATT.
IT IS RECOMMENDED THAT PRIOR TO THE POUR ALL JOINTS ARE CLEARLY MARKED ON ADJOINING VERTICAL SURFACES.
NO FOOD OR BEVERAGES ARE ALLOWED ON THE SALES FLOOR AFTER THE POUR.
NO LIFTS OR HEAVY WHEELED CARTS ON THE FINISHED FLOOR.
LADDERS AND ROLLING SCAFFOLDING OR BAKERS SCAFFOLDING.
WHEN FIXTURING , FIXTURES NEED TO BE BROUGHT IN CAREFULLY ON PNEUMATIC TIRES.

A. CONCRETE MATERIALS:
1. PORTLAND CEMENT: ASTM C 150, LOW ALKALI
2. FLY ASH: ASTM C 618, TYPE C OR F. LIMIT USE OF FLY ASH IN CONCRETE MIX DESIGN NOT TO EXCEED 25% OF CEMENT CONTENT BY WEIGHT.
3. AGGREGATES: ASTM C33, EXCEPT LOCAL AGGREGATES OF PROVEN DURABILITY MAY BE USED WHEN ACCEPTABLE TO THE ARCHITECT.
4. WATER: POTABLE
5. AIR-ENTRAINING ADMIXTURE: ASTM C 260
6. WATER-REDUCING ADMIXTURE: ASTM C 494, TYPE AS REQUIRED TO SUIT PROJECT CONDITIONS. ONLY USE ADMIXTURES WHICH HAVE BEEN TESTED AND ACCEPTED IN MIX DESIGNS, UNLESS OTHERWISE ACCEPTABLE.
7. REINFORCEMENT MESH: ASTM A-185

B. RELATED MATERIALS:
1. WATERSTOPS: FLAT DUMBBELL OR CENTERBULB TYPE, SIZE TO SUIT JOINTS OR EITHER RUBBER (CRD C 513 OR PVC (CRD C572)
2. MOISTURE BARRIER: CLEAR 8 MILS THICK POLYETHYLENE: POLYETHYLENE-COATED BARRIER PAPER: 1/8"H THICK ASPHALT CORE MEMBRANE SHEET.
3. MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 1, CLASS A.
4. JOINT FILLERS: SEE DIVISION 7

C. FORM MATERIALS:
1. PROVIDE FORM MATERIALS WITH SUFFICIENT STABILITY TO WITHSTAND THE PRESSURE OF PLACED CONCRETE WITHOUT BOW OR DEFLECTION.

D. EXPOSED CONCRETE SURFACES: SUITABLE MATERIAL TO SUIT PROJECT CONDITIONS.

E. REINFORCING MATERIALS:
1. DEFORMED REINFORCING BARS: ASTM A 615, GRADE 60, UNLESS OTHERWISE INDICATED.
2. WELDED WIRE FABRIC: ASTM A 185

F. FORMING AND PLACING CONCRETE:
1. JOB-SITE MIXING: USE DRUM TYPE BATCH MACHINE MIXER, MIXING NOT LESS THAN 1 _ MINUTES FOR ONE (1) CUBIC YARD OR SMALLER CAPACITY. INCREASE MIXING TIME AT LEAST 15 SECONDS FOR EACH ADDITIONAL CUBIC YARD OR FRACTION THEREOF.
2. READY-MIX CONCRETE: ASTM C 94.

G. FORMWORK:
1. CONSTRUCT SO THAT CONCRETE MEMBERS AND STRUCTURES ARE OF CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION. PROVIDE OPENINGS IN FORMWORK TO ACCOMMODATE WORK OF OTHER TRADES. CLEAN AND ADJUST FORMS PRIOR TO CONCRETE PLACEMENT. APPLY FORM RELEASE AGENTS OR WET FORMS, AS REQUIRED. RE-TIGHTEN FORMS DURING CONCRETE PLACEMENT IF REQUIRED TO ELIMINATE MORTAT LEAKS.

H. JOINTS:
1. PROVIDE CONSTRUCTION, ISOLATION AND CONTROL JOINTS AS INDICATED OR REQUIRED. LOCATE CONSTRUCTION JOINTS SO AS TO NOT IMPAIR THE STRENGTH AND APPEARANCE OF THE STRUCTURE. PLACE ISOLATION AND CONTROL JOINTS IN SLABS-ON-GRADE TO STABILIZE DIFFERENTIAL SETTLEMENT AND RANDOM CRACKING.

I. INSTALLATION OF EMBEDDED ITEMS:
1. SET AND BUILD INTO WORK ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR OTHER WORKTHAT IS ATTACHED TO, OR SUPPORTED BY, CAST-IN-PLACE CONCRETE. USE SETTING DIAGRAMS, TEMPLATES AND OTHER INSTRUCTIONS PROVIDED BY OTHERS FOR LOCATING AND SETTING.

J. CONCRETE PLACEMENT:
1. COMPLY WITH ACI, PLACING CONCRETE IN A CONTINUOUS OPERATION WITHIN PLANNED JOINTS OR SECTIONS. DO NOT BEGIN PLACEMENT UNTIL WORK OF OTHER TRADES AFFECTING CONCRETE IS COMPLETED.CONSOLIDATE PLACED CONCRETE USING MECHANICAL VIBRATING EQUIPMENT WITH HAND RODDING AND TAMPING SO THAT CONCRETE IS WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO FORMS. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREEMS DURING MIXING, PLACEMENT AND CURING.

IN COLD WEATHER COMPLY WITH ACI 306
1. DUE NOT EXPOSE TOPPING SLAB TO DIRECT EXCESSIVE PORTABLE HEATERS AS IT WILL CURL AND CRACK THE TOPPING SLAB FROM RAPID UNEVEN DRYING. DO NOT ALLOW THE CONRETE TOPPING TO BE EXPOSED TO FROST OR FREEZE DURING PLACEMENT OR CURRING.

IN HOT WEATHER COMPLY WITH ACI 305
1. IN EXTREME HEAT ICE MAY NEED TO BE USED IN LIEU OF WATER TO CONTROL SETTING TIMES AND ALLOW FOR ENOUGH OPEN TIME TO SUFFICIENTLY TROWEL THE "GPOTTERY BARN FINISH"H

K. BONDING:
1. BOND ALL NEW WORK TO OLD BY THOROUGHLY CLEANING OLD WORK AND APPLYING AN APPROVED CONCRETE GLUE EVENLY TO THE INTERFACING SURFACE JUST PRIOR TO POURING THE NEW WORK.

L. CONCRETE FINISHES:
FINISH FLOOR SHALL BE LEVEL AND FLAT WITHIN 1/8"H IN 10'F-0"H.

M. EXPOSED-TO-VIEW-SURFACES:
PROVOIDE A SMOOTH FINISH FOR EXPOSED CONCRETE SURFACES AND SURFACES THAT ARE TO BE COVERED WITH A COATING OR
COVERING MATERIAL APPLIED DIRECTLY TO CONCRETE. REMOVE FINS AND PROJECTIIONS, PATCH DEFECTIVE AREA AND RUB SMOOTH.

N. SLAB TROWEL FINISH:
1. APPLY TROWEL FINISH TO MONOLITHIC SLAB SURFACES THAT ARE EXPOSED-TO-VIEW OR ARE TO BE COVERED WITH RESILIENT FLOORING, PAINT OR OTHER THIN FILM COATING. CONSOLIDATE CONCRETE SURFACES BY FINISH TROWELING, FREE OF TROWEL MARKS, UNIFORM IN TEXTURE AND APPEARANCE.

O. CURING:
1. BEGIN INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM EXPOSED SURFACES. WHERE POSSIBLE, KEEP CONTINUOUSLY MOIST FOR NOT LESS THAN 72 HOURS. CONTINUE CURING BY USE OF MOISTURE-RETAINING COVER OR MEMBRANE-FORMING CURING COMPOUND. CURE FORMED SURFACES BY MOIST CURING UNTIL FORMS ARE REMOVED.PROVIDE PROTECTIONS, AS REQUIRED, TO PREVENT DAMAGE TO EXPOSED CONCRETE SURFACES.

P. CONCRETE TRENCHING AND FLOOR GRINDING SPECIFICATION:
1. LIGHT GRIND TO REMOVE MINOR DEFECTS, TROWEL MARKS, ETC. WITHOUT EXPOSING ANY AGGREGATE.
2. TWO PASSES WITH 100 GRIT USUALLY SUFFICE. IF REQUIRED, THE FIRST PASS CAN BE 80 GRIT.
3. IF THERE ARE DIVOTS/LOW SPOTS IN THE FLOOR BE CAREFUL NOT TO EXPOSED AGGREGATE. USING NON-STEEL GRINDING PADS MAY ASSIST THESE AREA. THESE SPOTS MAY NEED TO BE TREATED BY HAND GRINDING.
4. IF THE FLOOR IS IN SUCH CONDITION THAT AGGREGATE WILL BE EXPOSED, IT MUST BE KEPT TO A MINIMUM, BUT MOST OF ALL MUST BE CONSISTENT ACROSS THE ENTIRE SALES FLOOR. BEST TO DO SAMPLES IN AN INCONSPICUOUS AREA (SUCH AS THE STOCKROOM) FOR APPROVAL.
5. THOROUGH CLEANING IS REQUIRED BEFORE APPLYING TWO COATS OF SEALER PER FINISH SCHEDULE.

03320 CONCRETE FLOORING TOPPING

A. GENERAL: RETAIL DECORATIVE CONCRETE OVERLAY IS PER "G THE PORTLAND CEMENTS ASSOCIATIONS 1996 GUIDELINES FOR RESURFACING CONCRETE FLOORS".
1. COMPLY WITH REQUIREMENTS OF SECTION "GCONCRETE"H AND AS HEREIN SPECIFIED. FURNISH DATE, SAMPLES, AND MATERIALS CERTIFICATES AS SPECIFIED IN SECTION "G03310 CONCRETE". PROVIDE COLOR SAMPLES FOR APPROVAL BY ARCHITECT.

B. MOCKUPS: PLACE CONCRETE FLOOR TOPPING MOCKUPS TO DEMONSTRATE TYPICAL JOINTS, SURFACE FINISH, BONDING, TEXTURE, TOLERANCES, AND STANDARD OF WORKMANSHIP.
1. BUILD MOCKUPS APPROXIMATELY 100 SQ. FT. (9.3 SQ. M) IN BACK OF HOUSE OR BATHROOM BLOCK OUTS FOR CERAMIC TILE.
2. IF ARCHITECT OR OWNER DETERMINES THAT MOCKUPS DO NOT MEET REQUIREMENTS, THE GC IS TO PROVIDE OTHERS UNTIL MOCKUPS ARE APPROVED.

C. PRODUCTS
1. PORTLAND CEMENT: ASTM C 150, TYPE I OR III.
2. COMPRESSIVE STRENGHT (PSI) 3500
3. MAXIMUM WATER /CEMENT RATIO =.50
4. MAXIMUM CEMENT FACTOR (BAGS) =6 (70% HYDRAULIC CEMENT TYPE I / II 30% GRANULATED BLAST FURNACE SLAG
5. MAXIMUM AGGREGATE SIZE (ASTM C33) = #7 GRADE SIZE
6. FINE AGGREGATE (ASTM C33) NATURAL ROUNDED SAND
7. FINE AGGREGATE FINES MODULUS (ASTM C 33) = MINIMUM 2.60 TO MAXIMUM 3.00
8. NO AIR ENTRAINMENT AS IT WILL TEAR DURING FINISHING
9. MINIMUM INITIAL SLUMP 4" MAXIMUM 6".
10. REINFORCEMENT: ASTM A 185 WELDED STEEL WIRE FABRIC. 6X6X10/10 WELDED WIRE FABRIC.
11. NO ADDITIVE OR ACCELERATOR. ONLY A MID RANGE WATER REDUCER TO CONTROL W/C RATIO

EXECUTION

D. EXAMINATION:

E. READY-MIX TOPPING MAY BE USED WHEN ACCEPTABLE TO ARCHITECT. WHEN ACCEPTABLE, FURNISH READY-MIXED TOPPING COMPLYING WITH REQUIREMENTS OF ASTM C 94.
1. TOPPING APPLIED TO FRESH CONCRETE: DO NOT BEGIN PLACEMENT OF TOPPING UNTIL WATER CEASES TO RISE TO SURFACE, AND WATER AND LAITANCE HAVE BEEN REMOVED FROM BASE SLAB SURFACE.
2. TOPPING APPLIED TO HARDENED CONCRETE: REMOVE DIRT, LOOSE MATERIAL, OIL, GREASE, PAINT, OR OTHER CONTAMINANTS, LEAVING A CLEAN SURFACE.

FOR GOOD BONDING, ROUGHEN SURFACE BY CHIPPING OR SCARIFYING BEFORE CLEANING.
MECHANICALLY ABRADE BASE SLABS TO PRODUCE A HEAVILY SCARIFIED SURFACE PROFILE WITH AN AMPLITUDE OF " (6 MM). PRIOR TO PLACING TOPPING MIXTURE, DAMPEN SLAB SURFACE BUT DO NOT LEAVE STANDING WATER. OVER DAMPENED SURFACE, AND IMMEDIATELY BEFORE PLACING
TOPPING, BROOM ON A COAT OF THIN NEAT CEMENT GROUT. APPLY NEAT CEMENT GROUT ONLY TO AREAS WHICH WILL RECEIVE TOPPING BEFORE GROUT SETS OR DRIES. IN LIEU OF NEAT CEMENT GROUT, MANUFACTURED BONDING AGENT, INTEGRALLY COLORED TO SHOW EXTENT APPLICATION, MAY BE USED. APPLY BY BRUSH OR SPRAY, AND AT RECOMMENDED RATES, IN ACCORDANCE WITH MANUFACTURER'S DIRECTION.
FOR REINFORCED TOPPING, PROVIDE NECESSARY CHAIRS OR SUPPORTS, AND MAINTAIN POSITION OF REINFORCEMENT AS REQUIRED BY ASTM A 185.

E. JOINTS: MARK LOCATIONS OF JOINTS IN BASE SLAB SO THAT JOINTS IN TOP COURSE WILL BE PLACED DIRECTLY OVER THEM.

PLACING AND COMPACTING: SPREAD TOPPING MIXTURE EVENLY OVER PREPARED BASE, BRING TO REQUIRED LEVEL WITH STRAIGHT-EDGE AND STRIKE-OFF. AFTER PLACEMENT, DO NOT WORK SURFACE FURTHER UNTIL READY FOR FLOATING. BEGIN FLOATING WHEN SURFACE WATER HAS DISAPPEARED, OR WHEN CONCRETE HAS STIFFENED SUFFICIENTLY TO PERMIT HAND FLOATING.

F. CHECK AND LEVEL SURFACE PLAN TO TOLERANCE NOT EXCEEDING 5/16"H IN 10'F WHEN TESTED WITH A 10'F STRAIGHT-EDGE. CUT DOWN HIGH AREAS AND FILL LOW AREAS. UNIFORMLY SLOPE SURFACES TO DRAINS. IMMEDIATELY AFTER LEVELING, RE-FLOAT SURFACE TO UNIFORM, SMOOTH FINISH.

G. WHEN JOINTS ARE REQUIRED, CONSTRUCT TO MATCH AND COINCIDE WITH JOINTS IN BASE SLAB. PROVIDE OTHER JOINTS AS SHOWN ON OVERLAY FLOOR PLAN.

H. TROWEL FINISH: AFTER FLOATING, BEGIN TROWEL FINISH OPERATION USING POWER DRIVEN TROWELS. CONTINUE TROWELLING UNTIL SURFACE IS READY TO RECEIVE FINAL TROWELLING. BEGIN FINAL HAND-TROWELLING WHEN A RINGING SOUND IS PRODUCED AS TROWEL IS MOVED OVER SURFACE. CONSOLIDATE CONCRETE SURFACE BY FINAL HAND-TROWELLING OPERATION, FREE OF TROWEL
MARKS, UNIFORM IN TEXTURE AND APPEARANCE, WITH A SURFACE PLANE TOLERANCE NOT EXCEEDING 1/8" IN 10' STRAIGHT-EDGE.

SEALING: HYDROZO ENVIROSEAL 40 BY OTHERS.
1. ALLOW NEW CONCRETE TO CURE FOR 30 DAYS PRIOR TO APPLICATION.

CURE AND PROTECT TOPPING APPLICATIONS AND FINISHES AS SPECIFIED IN SECTION "G03310 CONCRETE".
AREAS OF CONCRETE OVERLAY ARE TO BE UNBONDED ON A SLIP SHEET. AREAS UNDER 3 INCHES ARE TO BE BONDED TO THE SUBSTRATE USING A CEMENT SLURRY OF PORTLAND CEMENT AND ACRYL 60. APPLY AT A BATTER THICKNESS TO CLEAN MOIST SUBSTRATE . PLACE CONCRETE WHILE BONDING AGENT IS STILL WET. PRE THE PORTLAND CEMENTS ASSOCIATION 1996 GUIDELINES FOR CONCRETE OVERLAYS.

03547 CEMENTITIOUS UNDERLAYMENT
A. SECTION INCLUDES:
1. LEVELING OF EXISTING CAST-IN-PLACE CONCRETE SLABS.
2. RAMPS AND TAPERS AS NECESSARY TO CORRECT LEVELS BETWEEN DISSIMILAR FINISHES.

B. MATERIALS:
1. FAST-SETTING SELF LEVELING UNDERLAYMENT SYSTEM: SELF-LEVELING, POURABLE, CEMENT BASED MATERIAL, MINIMUM 28 DAY COMPRESSIVE STRENGTH 4,500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109; MINIMUM BOND STRENGTH 200 PSI; ONE OF THE FOLLOWING.
A."ULTRA/PLAN" BY MAPEI CORPORATION. ; 800-42-MAPEI.
B."K-15" SELF-LEVELING UNDERLAYMENT CONCRETE BY ARDEX, L.P.; 888-512-7339.
C."LEVEL-RIGHT FS-10" BY MAXXON; 800-356-7887.
2. FAST-SETTING TROWELABLE UNDERLAYMENT SYSTEM;
A."QUICKCEM TOP 102"H BY MAPEI CORPORATION; 800-42-MAPEI.
B."SD-P" FAST-SETTING UNDERLAYMENT. BY ARDEX, L.P.; 888-512-7339.
C."EUCO-SPEED" BY EUCLID CHEMICAL COMPANY; 800-321-7628.
3. ACCESSORIES: FURNISH PRIMERS, PATCHING COMPOUNDS, AND SAND FILLERS AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR THE CONDITIONS OF THE PROJECT.

C. MIXING: THOROUGHLY MIX UNDERLAYMENT MATERIALS FOR EACH TYPE OF PRODUCT IN PROPER PROPORTIONS TO ACHIEVE SMOOTH HOMOGENEOUS MIX, FREE OF LUMPS.

D. WITH THE EXCEPTION OF AREAS WHERE LEVELING CAN BE ACCOMPLISHED BY USE OF LATEX UNDERLAYMENT, AS SPECIFIED IN OTHER SECTIONS, INSTALL CEMENTITIOUS UNDERLAYMENT TO CONCRETE SLABS AS INDICATED ON THE DRAWINGS, AND AS NECESSARY TO LEVEL SLABS OR BRING SUBSTRATES TO PROPER ELEVATION.

E. PREPARATION:
1. INSPECT FLOOR TO VERIFY THAT DEMOLITION IS COMPLETE TO THE POINT WHERE WORK MAY PROGRESS.
2. SURVEY FLOOR AS NECESSARY TO SET SCREEDS AND REFERENCE POINTS. IDENTIFY CONSTRUCTION JOINT, CONTROL JOINTS, AND EXPANSION JOINTS. PREPARE FOR UNDERLAYMENT AT ALL LOCATIONS WHERE FLOOR DOES NOT MEET SPECIFIED TOLERANCE REQUIREMENTS.
3. ENSURE THAT SUBFLOOR IS CLEAN, DRY, HARD, SOUND, AND FREE OF OILS, OR OTHER SUBSTANCE WHICH WOULD AFFECT PROPER BONDING AND CURING. ABRADE OR SHOTBLAST AS NECESSARY TO ACHIEVE CLEAN SURFACE.
4. VERIFY THAT ALL AREAS TO BE LEVELED ARE AT OR BELOW FINAL DESIGN ELEVATION.
5. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

F. APPLICATION:
1. INSTALL TROWELABLE UNDERLAYMENT AT LOCATIONS WHERE SLOPES ARE INDICATED AND AT OTHER LOCATIONS AS APPROPRIATE TO INSTALLATION CONDITIONS; INSTALL SELF LEVELING UNDERLAYMENT AT OTHER LOCATIONS AS NECESSARY TO CORRECT SLAB FLATNESS AND LEVELNESS.
2. SET SCREEDS, MARKERS, AND REFERENCE BLOCKS. SET SCREEDS AT ALL CONSTRUCTION AND CONTROL JOINTS TO ESTABLISH WEAKENED PLANE JOINTS IN UNDERLAYMENT.
3. INSTALL PATCHING COMPOUNDS IN ACCORDANCE WITH THE MANUFACTURER'FS RECOMMENDATIONS. WHERE SUBSEQUENT FINISHING OF THE MATERIAL IS REQUIRED, FLOAT TO LEVEL SURFACE. DO NOT TROWEL.
4. APPLY PRIMER TO ALL AREAS TO RECEIVE UNDERLAYMENT; REPEAT APPLICATION IF NECESSARY TO ACHIEVE PROPER BUILD.
5. MIX MATERIALS AND POUR OR PUMP AND SQUEEGEE INTO PLACE TO ACHIEVE APPROPRIATE THICKNESS.
6. FINISH TO A SMOOTH LEVEL SURFACE WITHIN TOLERANCES SPECIFIED FOR CONCRETE FLOORS.
7. CURE IN ACCORDANCE WITH THE MANUFACTURER'FS INSTRUCTIONS.
8. TOLERANCES:

A. "VERY FLAT"; LEVEL TO WITH 1/8"H IN 10 FEET. FF 50, FL 30, OVER TEST AREA; FF 25, FL 15, LOCAL MINIMUM
B. RAMPS AT TRANSITIONS: 1/4" PER FOOT SLOPE.

DIVISION 4 - MASONRY

044216 MECHANICALLY ANCHORED STONE VENEER

A. SECTION INCLUDES:
1. INTERIOR AND EXTERIOR MECHANICALLY- ANCHORED VENEER INSTALLATION OF OWNER-PROVIDED STONE MASONRY.
2. CONTRACTOR DESIGN OF STONE ANCHORAGE SYSTEMS.

B. SYSTEM DESCRIPTION:
1. THE SYSTEM CONSISTS OF STONE VENEER, VENEER SUPPORTS AND ANCHORS TO THE CONSTRUCTION INDICATED, AND SEALING SYSTEM FOR JOINTS. THE STONE ANCHORAGE SYSTEM SHALL CONSIST OF A MECHANICAL CONNECTION TO SUPPORTS AND SHALL NOT CONSIST OF AN ADHESION BOND.
2. THE DESIGN OF THE STONE VENEER SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, SUBJECT TO THE SPECIFIED REQUIREMENTS.
3. APPEARANCE: DESIGN STONE VENEER SYSTEM TO CONFORM TO THE GENERAL APPEARANCE AS INDICATED ON THE DRAWINGS, INCLUDING LOCATION OF JOINTS, SHAPES AND DIMENSION POINTS.
4. INTERFACE: THE STONE VENEER SYSTEM SHALL BE DESIGNED FOR SECURE ANCHORAGE WITHOUT MODIFICATIONS TO THE INDICATED BUILDING STRUCTURE, EXCEPT AS APPROVED. ALL MODIFICATION TO THE INDICATED BUILDING STRUCTURE SHALL BE PAID FOR BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
5. EXTERIOR SYSTEM STRUCTURAL DESIGN:
a. SEISMIC REQUIREMENTS: DESIGN THE ANCHORED MASONRY VENEER SYSTEM TO CONFORM TO THE SEISMIC REQUIREMENTS OF THE LOCALLY ENFORCED BUILDING CODE. ANCHORED MASONRY VENEER LOCATED IN SEISMIC DESIGN CATEGORY C, D, E OR F SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6.2.2.10 OF ACI 530 / ASCE 5 / TMS 402.
b. VENEER: DESIGN THE VENEER ATTACHMENT SYSTEMTO CONFORM TO 2003 CBC, CHAPTER 14, SECTION 1405.6, OR AS OTHERWISE REQUIRED BY THE LOCALLY ENFORCED BUILDING CODE.
c. DESIGN ALL COMPONENTS TO DEFLECT, PERPENDICULAR TO THE PLANE OF THE WALL, NO MORE THAN L/360 THE SPAN, UNDER DESIGN WIND LOADING. WIND LOADS SHALL BE CALCULATED IN ACCORDANCE WITH SECTION 1609 OF THE CBC, OR AS OTHERWISE REQUIRED BY THE LOCALLY ENFORCED BUILDING CODE.

6. INTERIOR SYSTEM STRUCTURAL DESIGN:
a. SEISMIC REQUIREMENTS: DESIGN THE SYSTEM TO CONFORM TO THE SEISMIC REQUIREMENTS OF 2003 CBC, CHAPTER 14, PARAGRAPH 1405.5.2, OR AS OTHERWISE REQUIRED BY THE LOCALLY ENFORCED BUILDING CODE.. ANCHORED MASONRY VENEER LOCATED IN SEISMIC DESIGN CATEGORY C, D, E OR F SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6.2.2.10 OF ACI 530 / ASCE 5 / TMS 402.
b. VENEER: DESIGN THE VENEER ATTACHMENT SYSTEM TO CONFORM TO 2003 CBC, CHAPTER 14, SECTION 1405.6, OR AS OTHERWISE REQUIRED BY THE LOCALLY ENFORCED BUILDING CODE.

7. DYNAMICS: DESIGN THE SYSTEM TO ACCOMMODATE BUILDING DYNAMICS WITHOUT DAMAGE TO THE STONE VENEER, SEALING SYSTEMS, ANCHORAGES, FASTENING SYSTEMS, OR SURROUNDING CONSTRUCTION. BUILDING DYNAMICS IS DEFINED AS THE SINGULAR AND COMBINED EFFECT OF WIND AND SEISMIC MOVEMENT, THERMAL MOVEMENT, AND FLOOR OR ROOF DECK DEFLECTION.
a. MAXIMUM WIND AND SEISMIC MOVEMENT SHALL CALCULATED AS A MAXIMUM STORY DRIFT OF .015 TIMES THE STORY HEIGHT.
b. MAXIMUM FLOOR OR ROOF DEFLECTION SHALL BE CALCULATED AS 1/2 INCH.
c. THERMAL MOVEMENT SHALL BE CALCULATED FOR A TEMPERATURE RANGE OF -20 DEGREES F. TO 140 DEGREES

8. WATER PENETRATION: DESIGN EXTERIOR SYSTEM TO REMAIN WATERTIGHT UNDER FULL WIND LOAD CONDITIONS, OR PROVIDE SECONDARY MEANS OF PREVENTING WATER INFILTRATION.

C. SUBMITTALS
1. MAKE SUBMITTALS IN ACCORDANCE WITH SECTION 013300.
2. PRODUCT DATA: SUBMIT COMPLETE LITERATURE FOR THE FOLLOWING:
a. ANCHORAGE SYSTEMS.
b. RECOMMENDED STONE CLEANERS AND CLEANING METHODS.
3. SHOP DRAWINGS:
a. INDICATE PERTINENT DIMENSIONING, LAYOUT, ANCHORAGES, CONSTRUCTION DETAILS, METHOD OF INSTALLATION, AND ADJACENT CONSTRUCTION.
b. SUBMIT INSTALLATION INSTRUCTIONS AND FIELD ERECTION DRAWINGS.
c. SHOP DRAWINGS SHALL BE STAMPED BY DESIGNING ENGINEER.
d. SEALANT: SUBMIT MANUFACTURER'S COMPLETE RANGE OF COLORS FOR SELECTION BY THE ARCHITECT.
e. BACKING ROD: SUBMIT SAMPLE AND PRODUCT LITERATURE.
4. QUALITY CONTROL SUBMITTALS: IN ACCORDANCE WITH SECTION 014500.
a.TEST REPORTS: SUBMIT ASTM C99 TEST REPORTS.
CERTIFICATIONS:
1. CERTIFICATION: SUBMIT WRITTEN CERTIFICATION THAT THE STONE VENEER SYSTEM HAS BEEN DESIGNED TO MEET THE SPECIFIED REQUIREMENTS.
2. SUBMIT A WRITTEN CERTIFICATION THAT ALL STONE WAS VISUALLY SELECTED TO MATCH THE PHYSICAL CHARACTERISTICS OF THE STONE TESTED AND ACCEPTED.
5. CLOSEOUT SUBMITTAL:
a. IN ACCORDANCE WITH SECTION 017700.
b.SUBMIT DESIGNING ENGINEER'S CERTIFICATION THAT PRODUCTS AND INSTALLATION COMPLY WITH DESIGN REQUIREMENTS.

D. QUALITY ASSURANCE
1. ALL WELDS SHALL BE PERFORMED BY WELDERS APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES.
2. QUALIFICATIONS:
a. INSTALLER QUALIFICATIONS: A MINIMUM OF 3 YEARS EXPERIENCE IN THE FIELD INSTALLATION OF STONE VENEER SYSTEMS, COMPARABLE IN SIZE AND SCOPE TO THE WORK OF THIS PROJECT; UNDER THE DIRECT SUPERVISION OF THE STONE FABRICATOR.
3. THE SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE THEPROJECT IS LOCATED.
4. TESTING: REPRESENTATIVE SAMPLES OF THE PROPOSED STONE SHALL HAVE BEEN TESTED BY AN INDEPENDENT TESTING LABORATORY, IN ACCORDANCE WITH ASTM C99.

E. PRODUCT HANDLING
1. IN ACCORDANCE WITH SECTION 016000.
2. STONE: USE NO PACKING MATERIALS WHICH WOULD CAUSE STAINING, OR DISCOLORATION. STORE ON PLATFORMS AT LEAST FOUR INCHES OFF OF THE GROUND. COVER WITH POLYTHENE AND PROTECT STONE FROM CONTACT WITH MATERIALS THAT WOULD CAUSE STAINING OR DISCOLORATION.

F. GUARANTEE
1. IN ACCORDANCE WITH 017700, THE STONE VENEER CONTRACTOR SHALL PROVIDE A WRITTEN 10-YEAR GUARANTEE COVERING DEFECTS IN MATERIALS AND WORKMANSHIP.

G. STONE:
1. STONE TYPE AS SCHEDULED ON THE DRAWINGS.
2. STONE SELECTION: STANDARD GRADE FREE FROM CRACKS, SEAMS, AND STARTS WHICH MAY IMPAIR ITS STRUCTURAL INTEGRITY OR FUNCTION. USE STONE WITHIN THE COLOR, TEXTURE, AND FINISH RANGE APPROVED BY ARCHITECT. REPLACE NON-CONFORMING STONE TO ME

DIVISION 5 - METAL

051200 STRUCTURAL STEEL

A. SUMMARY:
1. SECTION INCLUDES: STRUCTURAL STEEL ELEMENTS AS INDICATED ON THE STRUCTURAL DRAWINGS.
2. RELATED SECTIONS:
a. 055019 - ARCHITECTURAL STEEL FABRICATIONS: ARCHITECTURAL QUALITY FABRICATIONS INDICATED ON THE STRUCTURAL DRAWINGS INCLUDING THE FOLLOWING;
1) EXTERIOR CANOPY FRAMING.:

B. SUBMITTALS:
1. SHOP DRAWINGS:
a. INDICATE PROFILES, SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTIONS, ATTACHMENTS, FASTENERS, CAMBERS, AND LOADS.
b. INDICATE WELDED CONNECTIONS USING STANDARD AWS WELDING SYMBOLS. INDICATE NET WELD LENGTHS.
2. CERTIFICATIONS: SUBMIT CERTIFICATION OF MATERIALS WITH COPIES OF MILL REPORTS FOR EACH HEAT OF STEEL USED.

C. QUALITY ASSURANCE:
1. UNLESS SPECIFIED OR INDICATED OTHERWISE, WORK SHALL COMPLY WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, INCLUDING THE "COMMENTARY OF THE AISC SPECIFICATION."
2. THE WORK OF THIS SECTION IS SUBJECT TO TESTING AND INSPECTION.
3. USE ONLY AWS CERTIFIED WELDERS.

D. MATERIALS:
1. STEEL MATERIALS: AS INDICATED ON THE STRUCTURAL DRAWINGS.
2. ACCESSORIES:
a. WELDING MATERIALS: AWS D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.
b. NON-SHRINK GROUT: MASTER BUILDERS "EMBECO," SONNEBORN "FERROLITH G," OR APPROVED.
3. PRIMERS:
a. STANDARD PRIMER: MODIFIED ALKYD; LEAD AND CHROMATE FREE; ONE OF THE FOLLOWING UNLESS APPROVED OTHERWISE.
1) "AZERON SERIES FD-88" BY TNEMEC COMPANY INC. (816-483-3400).
2) "AMERCOAT 5105" BY AMERON PROTECTIVE COATINGS (714-529-1951).
3) "MULTI-BOND 150" BY CARBOLINE (914-644-1000).

E. FABRICATION:
1. FABRICATE STRUCTURAL STEEL ITEMS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
2. SHOP FABRICATE IN PARTS OR SECTIONS AS LARGE AS PRACTICABLE.
3. STANDARD SHOP PRIMER APPLICATION:
a. PREPARATION: REMOVE RUST AND SCALE BY WIRE BRUSHING, SCRAPING, AND SANDING DOWN TO BARE METAL IN ACCORDANCE WITH SSPC-SP2 AND SP3. WHERE SP2 AND SP3 MEASURES ARE INSUFFICIENT, PROVIDE COMMERCIAL BLAST CLEANING IN ACCORDANCE WITH SSPC-SP6.
b. APPLICATION: SPRAY APPLY PRIMER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, MIL MINIMUM DRY FILM THICKNESS.
c. SHOP PRIMER: SHOP PRIME ALL STEEL EXCEPT:
1) STEEL ENCASED IN CONCRETE.
2) SURFACES TO BE FIELD WELDED.
3) CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
4) MEMBERS TO BE GALVANIZED.
5) MEMBERS THAT WILL BE CONCEALED BY INTERIOR FINISHES.
6) SURFACES TO RECEIVE SPRAYED FIREPROOFING.
7) SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

F. ERECTION:
1. EMBEDDED ITEMS: FURNISH ANCHOR BOLTS AND TEMPLATES, AND OTHER ITEMS AS INDICATED, TO OTHER SECTIONS FOR INSTALLATION PRIOR TO PLACEMENT OF CONCRETE.
2. TEMPORARY SHORING AND BRACING: PROVIDE AS REQUIRED WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.
3. TOLERANCES: MAXIMUM DEVIATION FORM PLUMB, LEVEL, AND ALIGNMENT SHALL NOT EXCEED 1 TO 500.
4. BASE PLATE GROUTING: SET ON LEVELING NUTS TO ACCURATE ELEVATIONS AND GROUT SOLID WITH NON-SHRINK GROUT.
5. TOUCH-UP PAINTING: IMMEDIATELY AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS AND ABRADED AREAS.PAINT ALL EXPOSED SURFACES WITH SPECIFIED PRIMER.

054000 COLD FORMED METAL FRAMING

A. SUMMARY:
1. LIGHTGAGE STRUCTURAL STEEL METAL FRAMING AT EXTERIOR WALLS AND SOFFITS.

B. SYSTEM DESCRIPTION:
1. CONFIGURATION:
a. PROVIDE FRAMING OF DEPTH INDICATED ON THE DRAWINGS.
b. WHERE STUD GAGE IS INDICATED ON THE DRAWINGS, PROVIDE STUDS OF INDICATED OR HEAVIER GAGE.
c. WHERE STUD SPACING IS INDICATED ON THE DRAWINGS, PROVIDE ADDITIONAL STUDS OR CLOSER SPACING AS NECESSARY TO MEET DESIGN REQUIREMENTS.
d. IN ADDITION TO COLD FORMED METAL FRAMING, PROVIDE STRUCTURAL STEEL MEMBERS AS REQUIRED TO SUPPORT THE LOADS IMPOSED.

C. QUALITY ASSURANCE:
1. THE WORK OF THIS SECTION IS SUBJECT TO TESTING AND INSPECTION AS SPECIFIED IN 014500.
2. USE ONLY AWS CERTIFIED WELDERS APPROVED BY THE JURISDICTIONAL CODE AUTHORITIES.
3. CALCULATE STRUCTURAL PROPERTIES OF FRAMING MEMBERS IN ACCORDANCE WITH THE AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL MEMBERS".
4. REGULATORY REQUIREMENTS:
a. FRAMING SYSTEM SHALL MEET THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
b. FURNISH ALL DRAWINGS, AND OTHER ITEMS REQUIRED BY THE CODE AUTHORITIES TO OBTAIN APPROVAL OF THE INSTALLATION.

D. SUBMITTALS:
1. SHOP DRAWINGS:
a. INDICATE COMPONENT DETAILS, FRAMING OPENINGS, BEARING, ANCHORAGE, LOADING, TEMPORARY BRACING, WELDS, TYPE AND LOCATION OF MECHANICAL FASTENERS AND ACCESSORIES OR ITEMS REQUIRED OF OTHER WORK FOR COMPLETE INSTALLATION.
b. INDICATE FRAMING LAYOUTS.
2. MANUFACTURER'S INSTRUCTIONS: SUBMIT INSTRUCTIONS FOR SECURING STUDS TO TRACKS AND FOR OTHER FRAMING CONNECTIONS.

E. COMPONENTS:
1. COLD FORMED LIGHT-GAGE STEEL FRAMING:
a. FABRICATE FROM STEEL SHEET; QUALITY SQ. GRADE 50; MINIMUM 18 GAGE.
b. FINISH: G60 ZINC COATED FINISH IN ACCORDANCE WITH ASTM C653.
c. STUDS: C SHAPED SECTIONS; MINIMUM 1-5/8 INCH WIDE FLANGES WITH RETURN LIP.
2. SCREWS: ASTM C954; SELF DRILLING, SELF TAPPING; PAN HEAD; GALVANIZED OR FLUOROPOLYMER COATED STEEL.
3. ZINC RICH TOUCH-UP PAINT: "GALV-WELD", "GALVICAN","ZRC COLD GALVANIZED COMPOUND", OR APPROVED.

F. INSTALLATION:
1. INSTALL LIGHTGAGE STRUCTURAL FRAMING IN ACCORDANCE WITH ASTM C1007, UNLESS INDICATED OR SPECIFIED OTHERWISE.
2. ERECT METAL FRAMING AS INDICATED IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS.
3. SCREW OR WELD EACH JOINT. WELDS SHALL BE IN ACCORDANCE WITH AWS D1.3.
4. METAL FRAMING MEMBERS SHALL BE SAW OR SHEAR CUT. NO TORCH CUTTING IS PERMITTED.
5. CONSTRUCT CORNERS WITH A MINIMUM OF 3 STUDS PER CORNER.
6. FRAME BOTH SIDES OF EXPANSION AND SEISMIC JOINTS. DO NOT BRIDGE JOINTS WITH

DIVISION 5 - METAL - cont.

SYSTEMCOMPONENTS OR ACCESSORIES.
7. PROVIDE FRAMING AS REQUIRED TO FORM SOLID BACKING FOR ALL EDGES OF GYPSUM SHEATHING, AND TRIMACCESSORIES.
8. TOLERANCES:
a. PLUMBNESS: PLUMB WITHIN 1/8 INCH IN 10 FEET.
b. LOCATION: LOCATED WITHIN 1/4 INCH OF THE REQUIRED LOCATION.
c. ALIGNMENT: STUD AND RUNNER FACES TO RECEIVE FINISH MATERIALS SHALL NOT VARY GREATER THAN 1/8 INCH FROM THE REQUIRED PLANE, WITH NO ABRUPT JOGS OR BREAKS IN PLANE.
d. LEVEL: LEVEL WITHIN 1/8 INCH IN 10 FEET.
9. ERECT STUDS IN ONE PIECE FULL LENGTH. SPLICING AND WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE USED.
10. TOUCH-UP FIELD WELDS AND SCRATCHED OR DAMAGED GALVANIZING WITH ZINC RICH PAINT.
11. ATTACH CROSS STUDS OR FURRING CHANNELS TO STUDS FOR ATTACHMENT OF WALL MOUNTED ITEMS.
12. INSTALL FRAMING BETWEEN STUDS FOR ATTACHMENT OF ELECTRICAL BOXES AND OTHER MECHANICAL AND ELECTRICAL ITEMS.

G. FIELD QUALITY CONTROL: THE COLD FORMED METAL FRAMING MANUFACTURER'S DESIGN ENGINEER OR AUTHORIZED REPRESENTATIVE SHALL VISIT THE SITE TO INSPECT THE WORK. VERITY AND CERTIFY THAT FRAMING SIZES AND MATERIALS ARE AS REQUIRED, THAT CONNECTIONS ARE PROPERLY EXECUTED, AND THAT STRUCTURAL INTEGRITY OF MATERIALS HAS BEEN MAINTAINED.

055000 METAL FABRICATIONS

A. SUMMARY: STEEL FABRICATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SPECIFIED IN OTHER SECTIONS.

B. SUBMITTALS:
1. SHOP DRAWINGS:
a. INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING, SIZE AND TYPE OF FASTENERS, AND ACCESSORIES.
b. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE.
c. INDICATE ADJACENT CONSTRUCTION.
d. INDICATE WELDED CONNECTIONS USING STANDARD AWS WELDING SYMBOLS. INDICATE NET WELD LENGTHS.

C. MATERIALS:
1. STEEL PLATE, BARS, SHAPES: ASTM A36.
2. TUBES: ASTM A500 OR A501.
3. PIPE: ASTM A53, SEAMLESS, TYPE S, PLAIN END; SCHEDULE 40 UNLESS INDICATED OTHERWISE.
4. BOLTS AND NUTS: ASTM A307
5. INTERIOR PRIMER: MODIFIED ALKYD TYPE (VOC COMPLIANT); LEAD AND CHROMATE FREE; GRAY OR WHITE COLOR; ONE OF THE FOLLOWING UNLESS APPROVED OTHERWISE.
a. "AZERON PRIMER SERIES FD88" BY TNEMEC COMPANY INC. (KANSAS CITY, MO; 16-483-3400).
b. "AMERCOAT 5105" BY AMERON PROTECTIVE COATINGS (BREA, CA; 714-529-1951).
c. "MULTI-BOND 150" BY CARBOLINE COMPANY (ST. LOUIS, MO; 314-644-1000; 800_848_4645).

D. GENERAL FABRICATION REQUIREMENTS: FABRICATE AS FOLLOWS, UNLESS SPECIFIED OR INDICATED OTHERWISE.
1. VERIFY ALL DIMENSIONS AND FABRICATE TO DETAIL WITH ACCURATE SIZES AND SHAPES, STRAIGHT LINES, SMOOTH CURVES, AND SHARP ANGLES.
2. WELDS SHALL HAVE SUFFICIENT STRENGTH TO WITHSTAND THE LOADS APPLIED.
3. FOR ITEMS EXPOSED TO VIEW OR SUBJECT TO CONTACT, GRIND WELDS SMOOTH AND LEVEL WITH ADJACENT SURFACES; REMOVE ALL BURRS FROM CUT EDGES. FILL IMPERFECTIONS WITH BODY PUTTY AS NECESSARY FOR A SMOOTH EVEN FINISH.
4. BEND CURVED SECTIONS TO A SMOOTH RADIUS FREE FROM BUCKLES AND TWISTS.
5. FABRICATIONS IN EXTERIOR LOCATIONS SHALL BE FABRICATED TO SHED WATER.

E. SHOP FINISHES:
1. HOT DIP GALVANIZING:
a. STEEL FABRICATIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. BOLTS, NUTS, WASHERS, AND OTHER HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH A153.
b. SURFACE FINISH: THE GALVANIZED COATINGS SHALL BE CONTINUOUS, FIRMLY ADHERED, SMOOTH, AND FREE FROM DEFECTS.
c. LOCATIONS: PROVIDE HOT DIP GALVANIZING FOR ALL METAL FABRICATIONS IN EXTERIOR OR MOIST CONDITIONS, UNLESS OTHERWISE INDICATED.
2. INTERIOR PRIMED FINISH:
a. PREPARATION: SOLVENT CLEAN IN ACCORDANCE WITH SSPC-SP1. REMOVE RUST AND SCALE BY WIRE BRUSHING, SCRAPING, AND SANDING DOWN TO BARE METAL IN ACCORDANCE WITH SSPC-SP2 AND SP3. WHERE SP2 AND SP3 MEASURES ARE INSUFFICIENT, PROVIDE COMMERCIAL BLAST CLEANING IN ACCORDANCE WITH SSPC-SP6. IMMEDIATELY APPLY SPECIFIED PRIME COAT.
b. APPLY INTERIOR PRIMER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
c. INTERIOR HANDRAILS MAY REQUIRE EPOXY PRIMER INSTEAD.
d. LOCATIONS: PROVIDE AT ALL INTERIOR METAL FABRICATION EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED. DO NOT PRIME SURFACES TO BE EMBEDDED IN CONCRETE, AND SURFACES TO BE FIELD WELDED.

F. INSTALLATION:
1. INSTALL METAL FABRICATIONS IN ACCURATE LOCATIONS SHOWN. UNLESS INDICATED OTHERWISE, FABRICATIONS SHALL BE INSTALLED PLUMB AND LEVEL.
2. PROVIDE ALL ANCHORAGE DEVICES AS INDICATED AND REQUIRED FOR A SECURE INSTALLATION.
3. TOUCH-UP ALL SURFACES DAMAGED DURING INSTALLATION. PATCH ALL WELDS AND DAMAGE MARKS WITH MATCHING PRIMER.
4. INSTALL THE FOLLOWING FABRICATIONS WITH THE ADDITIONAL REQUIREMENTS SPECIFIED BELOW:
a. STANDARD STEEL PIPE RAILS:
1) EXPANSION JOINTS: PROVIDE EXPANSION JOINTS IN RAILING; FORM WITH INTERNAL SLEEVE EXTENDING 2 INCHES BEYOND JOINT EACH SIDE AND FASTEN SECURELY TO ONE SIDE. UNLESS OTHERWISE INDICATED, PROVIDE JOINTS SPACED IN ACCORDANCE WITH NAAMM RECOMMENDATIONS.
2) POSTS INSERTED IN SLEEVES: SECURELY WEDGE VERTICAL RAILING SUPPORTS AND SEAL WITH NON-SHRINK GROUT.
3) TOLERANCES: SET POSTS PLUMB AND ALIGNED TO WITHIN 1/4 INCH IN 12 FEET; SET RAILS HORIZONTAL OR PARALLEL TO RAKE OF STEPS OR SLOPE OF RAMP TO WITHIN 1/4 INCH IN 12 FEET.

055019 ARCHITECTURAL STEEL FABRICATIONS

A. SUMMARY: ARCHITECTURAL QUALITY STRUCTURAL STEEL FABRICATIONS INDICATED ON THE STRUCTURAL DRAWINGS INCLUDING THE FOLLOWING:
1. EXTERIOR STEEL CANOPY FRAMING

B. SUBMITTALS:
1. SHOP DRAWINGS:
a. INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING, SIZE AND TYPE OF FASTENERS, AND ACCESSORIES.
b. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE.
c. INDICATE ADJACENT CONSTRUCTION.
d. INDICATE WELDED CONNECTIONS USING STANDARD AWS WELDING SYMBOLS. INDICATE NET WELD LENGTHS.
2. SAMPLES: WHEN REQUIRED BY THE OWNER, SUBMIT SAMPLES OR MOCKUPS DIRECTLY TO THE OWNER FOR APPROVAL.

C. MATERIALS:
1. STEEL SHAPES, PLATES, AND BARS: ASTM A36.
2. STEEL TUBING: ASTM A500, GRADE B.
3. WELDING MATERIALS: AWS D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.
4. STEEL FINISH MATERIALS:
5. STEEL FINISH MATERIALS:
a. EPOXY PRIMER: CORLAR 3.2PR BY DUPONT.

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b. POLYURETHANE COLOR COAT: IMRON 3.5 SG BY DUPONT; ACRYLIC POLYURETHANE ENAMEL; SEMI-EGGSHELL SHEEN; COLOR: BLACK.
c. POLYURETHANE CLEAR COAT: IMRON 3.4 HG-C BY DUPONT

D. FABRICATION:
1. SHOP ASSEMBLY:
a. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
b. FIT AND SHOP ASSEMBLE SECTIONS IN LARGEST PRACTICAL SIZES, FOR HANDLING.
c. GRIND EXPOSED WELDS FLUSH AND SMOOTH WITH ADJACENT FINISHED SURFACE. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS.
d. MAKE EXPOSED JOINTS TIGHT, FLUSH, AND HAIRLINE.
e. WELDS SHALL BE CONTINUOUS.
2. SHOP FINISHING:
a. WHITE BLAST SURFACES IN ACCORDANCE WITH SSPC SP-10.
b. SPRAY APPLY PRIMER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO A DRY FILM THICKNESS OF 4 TO 6 MILS.
c. SPRAY APPLY FINISH COAT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO A DRY FILM THICKNESS OF 3 TO 5 MILS, OR AS REQUIRED TO FULLY COVER THE PRIMER.
d. FINISH COAT SHALL BE FREE OF DUST, DIRT, FLOW LINES, STREAKS, SAGS, BLISTERS, PINHOLES, RUNS, OR OTHER SURFACE IMPERFECTIONS.

E. INSTALLATION:
1. INSTALL ALL WORK OF THIS SECTION SECURELY, IN ACCURATE ALIGNMENT, AND AS INDICATED ON THE DRAWINGS AND APPROVED SHOP DRAWINGS.
2. TOUCH-UP ALL SHOP PRIMING COATS DAMAGED DURING TRANSPORTATION AND ERECTION, USING THE PRIMING PAINT SPECIFIED FOR SHOP PRIMING.

DIVISION 6 - WOOD AND PLASTIC

061000 ROUGH CARPENTRY

A. SUMMARY:
1. SHEATHING.
2. BLOCKING AND NAILERS.
3. PLYWOOD TERMINAL BACK BOARDS.

B. SUBMITTALS:
1. PRODUCT DATA: SUBMIT COMPLETE TECHNICAL AND PRODUCT DATA ON THE FOLLOWING:
a.FIRE RETARDANT WOOD TREATMENTS.

C. QUALITY ASSURANCE:
1. REGULATORY REQUIREMENTS: WORK SHALL CONFORM TO/ MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE WORK.

D. DIMENSION LUMBER:
1. LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH PS 20, AND SHALL BE STAMPED AND GRADED IN ACCORDANCE WITH WWPA, WCLIB, NLGA, OR SPIB GRADING RULES, AS APPLICABLE TO PROJECT LOCATION.
2. MOISTURE CONTENT: KILN DRIED TO 19% MAXIMUM MOISTURE CONTENT, EXCEPT FOR MATERIAL WHOSE LEAST DIMENSION IS 4 INCHES THICK OR GREATER.
3. SPECIES: HEM-FIR, SPRUCE-PINE-FIR (SPF), OR DOUGLAS FIR LARCH, UNLESS INDICATED OR SPECIFIED OTHERWISE.
4. LUMBER GRADES: UNEXPOSED NON-STRUCTURAL WOOD FRAMING AND BLOCKING INDICATED ON THE ARCHITECTURAL DRAWINGS SHALL BE GRADED AS FOLLOWS:
a. 2" TO 4" THICK, 2" TO 4" WIDE): "NO 2 - STRUCTURAL LIGHT FRAMING," OR BETTER.
b. 2" TO 4" THICK, 5" AND WIDER: "NO. 2 - STRUCTURAL JOISTS AND PLANKS," OR BETTER.

E. PANEL MATERIALS:
1. SHEATHING: APA RATED PLYWOOD SHEATHING; STRUCTURAL I; CD GRADE; EXTERIOR; UNLESS INDICATED OTHERWISE ON THE STRUCTURAL DRAWINGS; THICKNESSES AS INDICATED.
2. TERMINAL BACKBOARDS: APA AC GRADE EXTERIOR; FIRE RETARDANT TREATED.

F. ACCESSORIES:
1. FASTENERS:
a. HOT-DIPPED GALVANIZED STEEL FOR EXTERIOR, HIGH HUMIDITY, AND TREATED WOOD LOCATIONS.
b. USE RING SHANK NAILS AT FLOOR SHEATHING.
2. CONSTRUCTION ADHESIVE: MAKLENBURG DUNCAN MD400, OR OTHER PRODUCT MEETING THE REQUIREMENTS OF AFG-01.

G. WOOD TREATMENT:
1. FIRE RETARDANT TREATMENT:
a. FIRE RETARDANT TREAT ALL INTERIOR CONCEALED LUMBER AND PLYWOOD, AND OTHER WOOD AS INDICATED OR SPECIFIED. PROVIDE EXTERIOR FIREPROOFING AT EXTERIOR PLYWOOD FOR PARAPET SHEATHING.
b. PRESSURE TREAT LUMBER IN ACCORDANCE WITH AWPA C-20 AND PLYWOOD IN ACCORDANCE WITH AWPA C-27.
c. ALL FIRE RETARDANT TREATED WOOD SHALL BEAR A UL "FR-S" LABEL, OR A LABEL FROM AN APPROVED INSPECTION AGENCY CERTIFYING THAT THE MATERIAL HAS A FLAME SPREAD RATING NO HIGHER THAN 25 WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN TESTED IN ACCORDANCE WITH ASTM E84. EXTERIOR FIRE RETARDANT TREATED WOOD SHALL BE TREATED BY MEANS OF A SYSTEM WHICH HAS BEEN DEMONSTRATED TO EXHIBIT NO INCREASE IN FIRE HAZARD CLASSIFICATION IN ACCORDANCE WITH ASTM E84 TEST AFTER HAVING BEEN SUBJECTED TO ACCELERATED WEATHER CONDITIONING IN ACCORDANCE WITH ASTM D2898.
d. SITE TREAT SAWN ENDS WITH APPROVED FIRE RETARDANT TREATMENT.
e. APPROVED PRODUCTS:
1) INTERIOR FIREPROOFING PRODUCTS: CLEAR FINISH PRODUCT, HICKSON CORPORATION "DRICON", HOOVER TREATED WOOD PRODUCTS "PYRO-GUARD," OSMOSE WOOD PRESERVING CO. OF AMERICA, INC. "FLAME PROOF LHC," OR APPROVED.
2) APPROVED EXTERIOR FIREPROOFING PRODUCTS: HOOVER TREATED WOOD PRODUCTS "EXTERIOR FIRE-X," OR APPROVED.

H. SHEATHING:
1. SECURE SHEATHING WITH EDGES ON FIRM BEARING. PROVIDE SOLID EDGE BLOCKING BETWEEN SHEETS.
2. FASTENING SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS, UNLESS INDICATED OTHERWISE. USE SCREWS WHEN FASTENING INTO METAL LIGHTGAGE METAL FRAMING.
3. ALLOW 1/8 INCH SPACING AT ENDS AND EDGES BETWEEN PANELS, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER.
4. FLOOR SHEATHING SHALL BE GLUED TO FRAMING MEMBERS WITH CONSTRUCTION ADHESIVE IN ACCORDANCE WITH PANEL MANUFACTURER'S RECOMMENDATIONS.

I. BLOCKING, NAILERS, AND CURBS:
1. PROVIDE BLOCKING, NAILERS, AND CURBS FOR ALL SHEATHING, ROOF CONSTRUCTION, METAL FLASHING, AND OTHER CONSTRUCTION AS INDICATED.
2. WOOD BLOCKING: INSTALL WOOD BLOCKING TO RECEIVE MECHANICAL FASTENERS FOR SUPPORT OF PLUMBING AND ELECTRICAL FIXTURES AND EQUIPMENT, CABINETS, DOOR STOP PLATES, WOOD BASE, WAINSCOTS, COAT HOOKS, TOILET AND BATH ACCESSORIES, AND ALL OTHER WALL AND CEILING MOUNTED COMPONENTS.

J. PLYWOOD TERMINAL BACKBOARDS:
1. PROVIDE A FIRE RETARDANT TREATED PLYWOOD TERMINAL BACKBOARD FOR TELEPHONE SYSTEMS WHERE INDICATED ON THE DRAWINGS.
2. MECHANICALLY APPLY DIRECTLY OVER GYPSUM BACKING BOARD.

DIVISION 6 - WOOD AND PLASTIC - cont.

062000 FINISH CARPENTRY

A. SUMMARY:
1. STANDING AND RUNNING TRIM, NOT INCLUDED WITH DISPLAY CASEWORK.
2. INSTALLATION OF WALL BASE FURNISHED BY THE OWNER.
3. PLYWOOD SUBSTRATE TO RECEIVE SOLID SURFACING VANITY TOPS.
4. DISPLAY WINDOW ACCESS DOOR FRAME AND TRIM.
5. ALL OTHER FINISHED WOOD ITEMS INDICATED ON THE DRAWINGS OR OTHERWISE REQUIRED FOR A COMPLETE ASSEMBLY.

B. REFERENCES:
1. AMERICAN PLYWOOD ASSOCIATION (APA)
2. THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) "ARCHITECTURAL WOODWORK QUALITY STANDARDS, LATEST EDITION.

C. QUALITY ASSURANCE:
1. QUALIFICATIONS OF WORKMEN: CUTTING AND FITTING OF TRIM AND FINISH MATERIAL, SHALL BE PERFORMED BY FINISH CARPENTERS THOROUGHLY TRAINED AND EXPERIENCED IN THE SKILLS REQUIRED, COMPLETELY FAMILIAR WITH THE MATERIALS INVOLVED AND THE MANUFACTURER'S RECOMMENDED METHODS OF INSTALLATION, AND THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THIS WORK.
2. SPECIAL COORDINATION REQUIREMENTS:
A. WHEN FINISH CARPENTRY ELEMENTS ARE ADJACENT TO DISPLAY CASEWORK, COORDINATE DETAILING AND LUMBER SELECTION TO MATCH THE DISPLAY CASEWORK.

D. DELIVERY, STORAGE AND HANDLING:
1. DELIVERY: DO NOT DELIVER MILLWORK TO BUILDING UNTIL "WET WORK" SUCH AS CONCRETE, PLASTER AND GYPSUM WALLBOARD WORK HAS BEEN COMPLETED AND CURED TO A CONDITION OF EQUILIBRIUM.
2. STORAGE: STORE IN A DRY PLACE WITH ADEQUATE AIR CIRCULATION. STORE WOOD MATERIALS IN THE GENERAL AREAS WITHIN THE BUILDING WHERE THEY ARE TO BE INSTALLED. STACK USING SPACERS, STICKERS, OR OTHER DEVICES TO PERMIT AIR CIRCULATION. ALLOW TO STABILIZE FOR A MINIMUM OF 48 HOURS PRIOR TO INSTALLATION.
3. HANDLING: PROTECT MILLWORK FROM EXCESSIVE MOISTURE IN SHIPMENT, STORAGE, AND HANDLING.

E. SITE CONDITIONS:

F. LUMBER:
1. MOISTURE CONTENT: IN ACCORDANCE WITH AWI RECOMMENDATIONS
2. SOLID WOOD FOR TRANSPARENT FINISH (EXPOSED APPLICATIONS):
a. SPECIES: AS LISTED IN THE FINISH AND MATERIAL LEGEND.
b. DEFECTS: LIMIT IN ACCORDANCE WITH AWI LUMBER GRADE I.
3. TRIM FOR OPAQUE FINISH:
a. DEFECTS: LIMIT IN ACCORDANCE WITH AWI LUMBER GRADE I.
b. SPECIES: NATURAL BIRCH, MAPLE, YELLOW POPLAR, OR OTHER APPROVED CLOSED GRAIN HARDWOOD.
c. MEDIUM OR HIGH DENSITY WOOD FIBERBOARD MY BE USED IN LIEU OF WOOD FOR INTERIOR TRIM APPLICATIONS INDICATED FOR OPAQUE FINISH.

G. SHEET PANELS:
1. PLYWOOD FOR INTERIOR APPLICATIONS (CONCEALED): SOFTWOOD VENEER PLYWOOD, APA GRADE STAMPED; B_C EXT, OR BETTER FOR OTHER APPLICATIONS, UNLESS OTHERWISE NOTED.

H. FABRICATION AND ASSEMBLY:
1. FABRICATE ALL FINISH CARPENTRY ITEMS IN ACCORDANCE WITH APPLICABLE AWI STANDARDS, PREMIUM GRADE IN SALES (PUBLIC) AREAS; CUSTOM GRADE IN ALL OTHER AREAS.
2. FABRICATE ITEMS TO DETAIL, IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. SHOP ASSEMBLE TO THE GREATEST PRACTICAL EXTENT.
3. ALL CUTS SHALL BE SMOOTH AND EXACT, WITH JOINTS ACCURATELY MATCHED, TIGHTLY FITTED, AND SECURELY ATTACHED. ALL SURFACES SHALL BE SANDED, FREE OF SPLINTERS AND ROUGH EDGES.
4. GLUING: ALL EXPOSED GLUE LINES SHALL BE FREE OF SQUEEZE-OUT; WHERE INDICATED FOR PIECES TO RECEIVE TRANSPARENT FINISH, REJECT ALL PIECES FROM WHICH GLUE CANNOT BE REMOVED WITHOUT AFFECTING PENETRATION OF FINISH.
5. SANDING: UNLESS OTHERWISE INDICATED, EASE ALL EXPOSED EDGES OF WOOD TRIM TO A UNIFORM 1/16 INCHRADIUS. SAND ALL FABRICATED COMPONENTS WITH 120 GRIT OR FINER PAPER, FREE OF SPLINTERS AND CROSS GRAIN SCRATCHES. SAND JOINTS SMOOTH; CUT AND SAND PLUGS FLUSH.
6. DISPLAY WINDOW DOOR FRAME:
a. COORDINATE WITH SECTION 087100 FOR HARDWARE AND MOUNTING REQUIREMENTS.
b. FABRICATE FROM PAINT GRADE HARDWOOD UNLESS APPROVED OTHERWISE.
7. WALL BASE: SOLID TRANSPARENT FINISH LUMBER; KERFED ON BACK SIDE TO MINIMUM DEPTH OF 3/8"; FURNISHED BY OWNER.

I. INSTALLATION OF STANDING AND RUNNING TRIM:
1. INSTALL TRIM STRAIGHT, TRUE, LEVEL, PLUMB, AND FIRMLY ANCHORED IN PLACE IN ACCORDANCE WITH GOOD TRADEPRACTICE, APPROVED SHOP DRAWINGS.
2. JOINTING: MAKE ALL JOINTS TO CONCEAL SHRINKAGE; MITER ALL CORNERS EXCEPT THAT INSIDE CORNERS OF WALL BASE SHALL BE COPED; SCARF ALL END-TO-END JOINTS AT A 45 DEGREE ANGLE; INSTALL ALL TRIM PIECES AS LONG AS POSSIBLE, JOINTING ONLY WHERE SOLID SUPPORT IS OBTAINED. MAKE EACH CONTINUOUS RUN OF 8'-0" OR LESS FROM SINGLE PIECE WITHOUT JOINTS; LOCATE BUTT JOINTS NO LESS THAN 6'-0" FROM CORNERS OR ENDS OF TRIM.
3. SELECT WOOD FOR TRANSPARENT FINISH TO MATCH APPROVED SAMPLES, AND FOR UNIFORMITY OF APPEARANCE AND GRAIN AND COLOR MATCH BETWEEN ADJACENT PIECES.
4. USE RANDOM LENGTHS, MINIMUM 8'-0" LONG, FOR CONTINUOUS RUNS OF RUNNING TRIM.
5. FASTENING:
a. INSTALL ALL ITEMS STRAIGHT, TRUE, LEVEL, PLUMB, AND FIRMLY ANCHORED IN PLACE. COORDINATE WITH OTHER TRADES TO ENSURE PLACEMENT OF ALL REQUIRED BACKING AND BLOCKING IN A TIMELY MANNER.
b. USE TRIM HEAD SCREWS OR NAIL TRIM WITH FINISHING NAILS OF PROPER DIMENSION TO HOLD THE MEMBER FIRMLY IN PLACE WITHOUT SPLITTING THE WOOD.
c. ANCHOR SOLID PANELS AND WIDE PIECES WITH PROVISIONS FOR MOVEMENT PERPENDICULAR TO GRAIN.
d. ON EXPOSED FINISH WORK, SET ALL NAILS AND TRIM HEAD SCREWS FOR PUTTY.
e. SCREW, DO NOT HAMMER-DRIVE, ALL WOOD SCREWS. PREDRILL IF NECESSARY TO PREVENT SPLITTING.
f. ALIGN AND SPACE FASTENERS FOR UNIFORM PATTERN WHERE POSSIBLE, NO "SHOTGUN" PATTERNS WILL BE ACCEPTED.
g. COUNTERSINK AND PLUG FLATHEAD SCREW HOLES USING WOOD PLUGS WITH GRAIN PARALLEL AND COLORING SIMILAR TO PIECE BEING SECURED.
2. CURVED TRIM SHALL BE INSTALLED TO MINIMIZE STRESS ON FASTENERS, AND IN A MANNER WHICH WILL PRESENT A UNIFORM CURVE ACROSS END TO END JOINTS.

J. INSTALLATION OF MISCELLANEOUS ITEMS
1. VANITY TOPS: INSTALL PLYWOOD FIRMLY SCREWED IN PLACE, FLAT, AND LEVEL. USE SINGLE PANELS FOR EACH DISTINCT VANITY TOP.
2. INSTALL ALL OTHER ITEMS IN STRICT ACCORDANCE WITH THE DRAWINGS, AND THE PUBLISHED RECOMMENDATIONS OF THE MANUFACTURER OF THE ITEM, ANCHORING FIRMLY IN PLACE AT THE PRESCRIBED LOCATION, STRAIGHT, PLUMB, LEVEL, AND SECURELY ANCHORED.

K. FIELD FINISHING:
1. SANDPAPER ALL WOOD SURFACES THOROUGHLY AS REQUIRED TO PRODUCE A UNIFORMLY SMOOTH SURFACE, ALWAYS SANDING IN THE DIRECT

DIVISION 7 - THERMAL & MOISTURE PROTECTION

70150 ROOF PATCHING AND REPAIR

A. MATERIALS: UNLESS APPROVED OTHERWISE, NEW MATERIALS SHALL MATCH THE EXISTING MATERIALS. AN INSTALLER APPROVED BY THE OWNER/ LANDLORDS ON-SITE REPRESENTATIVE SHALL PERFORM ROOFING WORK.

B. PROTECTION:
1. PROTECT EXISTING CONSTRUCTION ADJACENT TO ALL WORK AREAS PRIOR TO STARTING WORK.
a. LAP SUITABLE PROTECTIVE MATERIAL AT LEAST 3 INCHES.
b. SECURE PROTECTIVE COVERINGS AGAINST WIND.
c. LEAVE PROTECTIVE COVERING IN PLACE FOR DURATION OF ROOFING WORK.
2. LEAVE PROTECTIVE COVERINGS IN PLACE FOR THE DURATION OF THE WORK.
3. RESTORE TO ORIGINAL CONDITION OR REPLACE WORK OR MATERIALS DAMAGED DURING HANDLING OF ROOFING MATERIALS.

C. REMOVAL OF EXISTING ROOFING AND FLASHING SYSTEMS:
1. REMOVE EXISTING ROOFING AND FLASHING SYSTEMS TO ACCOMMODATE NEW ROOFING AND FLASHING SYSTEMS.
2. REMOVE EXISTING SYSTEMS TO EXPOSE SUBSTRATES. CLEAN AND PREPARE SURFACES IN MANNER REQUIRED FOR INSTALLATION OF NEW SYSTEMS.
3. REMOVE RESULTING MATERIALS FROM ROOFING AREAS AND JOBSITE ON THE SAME DAY THEY ARE REMOVED. DISPOSE OF IN A LEGAL MANNER.
4. PROVIDE CHUTES, TARPS, AND OTHER MATERIALS TO PREVENT DAMAGING OR STAINING OF BUILDING COMPONENTS THAT ARE TO REMAIN.
5. EXISTING SURFACES SHALL BE MADE SMOOTH, FIRM, DRY, AND FREE FROM DIRT, FOREIGN MATERIALS, SHARP PROJECTIONS, OR VOIDS.

D. PATCHING OF EXISTING ROOF:
1. PROVIDE NEW MATERIALS AS REQUIRED TO FORM A COMPLETE AND CONTINUOUS ROOF ASSEMBLY.
2. PROVIDE ADDITIONAL TAPERED CONSTRUCTION AS REQUIRED TO FORM NEW NON-PONDING DRAINAGE PATTERNS AROUND NEW CONSTRUCTION. COORDINATE THE PLACEMENT OF NEW DRAINS.
3. SEAL OFF ALL ROOF AREAS AT THE END OF EACH WORK DAY.
4. PERFORM WORK IN ACCORDANCE WITH THE GUARANTEE REQUIREMENTS OF THE EXISTING ROOF ASSEMBLY. CONTACT THE OWNER TO VERIFY GUARANTEE REQUIREMENTS. PROVIDE CERTIFICATION UPON COMPLETION OF WORK THAT NEW WORK INSTALLED MAINTAINS THE EXISTING GUARANTEE.

072100 BUILDING INSULATION

A. SUMMARY:
1. BATT AND BLANKET INSULATION WITH SEPARATE VAPOR BARRIER.
2. PROTECTIVE MEMBRANE.

B. MATERIALS:
1. UNFACED BATT AND BLANKET INSULATION: ASTM C665, TYPE I; PREFORMED UNFACED GLASS FIBER ROLL; FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84; FORMALDEHYDE FREE, JOHNS MANVILLE CORP. "THERMAL-SHIELD UNFACED FIBER GLASS COMMERCIAL INSULATION;" OR APPROVED; OVERSIZE WIDTHS FOR FRICTION-FIT BETWEEN METAL FRAMING.
2. SEPARATE VAPOR BARRIER FOR BATT INSULATION: FOIL SCRIM KRAFT FSK 25; FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
3. TAPE: TO MATCH FOIL SCRIM KRAFT FACE; 2 INCH WIDTH.
4. ACOUSTICAL INSULATION: SEE SECTION 098100.

C. INSTALLATION:
1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED.
2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VOIDS.
3. INSTALLATION OF THERMAL BATT INSULATION:
a. AT METAL STUD FRAMING, INSERT THE INSULATION EDGES TIGHTLY INTO THE STUD C HANNELS FOR A FRICTION FIT. PROVIDE ADDITIONAL SUPPORTS AS NECESSARY TO PREVENT SLIDING OF BATTS IN THE STUD CAVITY.
b. MECHANICAL FASTENING:
1) AT LOCATIONS WHERE NO SUPPORT FRAMING IS PRESENT, PROVIDE METAL IMPALING PINS AND RETAINERS.
2) MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3) SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BATT. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.
c. PACK BATT INSULATION IN SHIM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.
4. SEPARATE VAPOR BARRIER INSTALLATION:
a. INSTALL SEPARATE VAPOR BARRIER OVER UNFACED INSULATION.
b. INSTALL VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES.
c. VAPOR BARRIER SHALL BE CONTINUOUS.
d. AT LOCATIONS WHERE INSULATION IS MECHANICALLY FASTENED BY IMPALING PINS, PLACE VAPOR RETARDER OVER IMPALING PINS AND HOLD IN POSITION WITH ADDITIONAL RETAINERS. THE INSTALLATION SHALL PRESENT A TIGHT, CONTINUOUS, AND WRINKLE FREE APPEARANCE.
e. AT LIGHT GAGE SUPPORT FRAMING, SECURE TO STUDS WITH DOUBLE STICK TAPE OR SPRAY ADHESIVE.
f. LAP JOINTS IN VAPOR BARRIER 2 INCHES, EXCEPT PROVIDE TAPE SEALED JOINTS AT LOCATIONS WHERE VAPOR BARRIER WILL REMAIN EXPOSED IN THE FINISHED WORK.
g.TAPE SEAL VAPOR BARRIER TO ADJACENT CONSTRUCTION AT PERIMETER EDGES.
h.TAPE AND SEAL TEARS OR CUTS IN VAPOR BARRIER.

D. R VALUE SCHEDULE:
1. PROVIDE INSULATION IN SUFFICIENT THICKNESS TO PROVIDE THE FOLLOWING R VALUES:
a. VERTICAL ASSEMBLIES WITH HORIZONTAL HEAT FLOW: R19.
b. HORIZONTAL AND SLOPED ASSEMBLIES WITH HEAT FLOW UP: R30.
2. THE ABOVE R VALUES ARE REQUIRED FOR THE TOTAL INSULATION IN THE ASSEMBLY. THE BATT INSULATION MAY BE COMBINED WITH OTHER INSULATIONS IN THE ASSEMBLY TO OBTAIN THE TOTAL R VALUE REQUIRED. THE R VALUE IS FOR THE INSULATION ONLY AND MAY NOT INCLUDE AIR FILM VALUES, AND R VALUES FOR OTHER MATERIALS IN THE ASSEMBLY SUCH AS CONCRETE AND GYPSUM BOARD.

0737129 - WOOD SHINGLE ROOFING

1. GENERAL
A. SECTION INCLUDES:
1) CEDAR SHINGLE ROOFING, WITH UNDERLAYMENT, HEADWALL AND EAVE PROTECTION, AND ASSOCIATED PROTECTIVE FLASHINGS.
2) SUBMITIALS: PRODUCT DATA ON WOOD SHINGLES.

2. PRODUCTS
A. WESTERN RED CEDAR SHIGLES - CERTI-GUARD TREATED CERTIGRADE SHINGLES, NUMBER 1 GRADE, BLUE LABEL. EIGHTEEN (18) INCH "GPERFECTION"H LENGTH, WITH 5/2 INCH BUTT, LAID 6 INCH TO THE WEATHER. SHINGLE WIDTH NO LESS THAN 4 INCHES, CONFIRM AVERAGE AND MAXIMUJO RANGE.
B. UNDERLAYMENT: ASTM 0226, NO. 30 UNPERFORATED ASPHALTFELT.
C. FASTENERS:
1) NAILS: HOT-DIPPED GALVANIZED STEEL, OR STAINLESS STEEL; SUFFICIENT LENGTH TO PENETRATE SHEATHING 1/2" TO 3/4'; 3D FOR 18" SHINGLES; 4D FOR 24 INCH SHINGLES.
D. PLASTIC CEMENT: ASTM D2822; CUTBACK ASPHALTIC TYPE WITH MINERAL FIBER COMPONENTS.
E. LAP CEMENT: FIBRATED CUTBACK ASPHALTIC TYPE, FOR USE AS COLO APPLICATION ADHESIVE ON ASPHALT ROOFING OR UNDERLAYMENT.
F. SHEET METAL FLASHING AND TRIM. PROVIDED UNDER THE WORK OF SECTION 076200.
G. FABRICATION:
1) FLASHING: FORM FLASHINGS TO PROTECT ROOF ASSEMBLY AND SHED WATER FORM SECTIONS SQUARE, TRUE, AND ACCURATE TO PROFILE, IN MAXIMUM POSSIBLE LENGTHS,

DIV. 7 - THERMAL & MOISTURE PROTECTION - cont.

FREE FROM DISTORTION AND OTHER DEFECTS DETRIMENTAL TO APPEARANCE OR PERFORMANCE.

3. EXECUTION
A. INSTALLATION - GENERAL
1) INSTALL SHINGLES IN COMPLIANCE WITH CEDAR SHAKE AND SHINGLE BUREAU (CSSB) RECOMMENDATIONS.
2) INSTALL WOOD SHINGLE ROOFING OVER DRY SURFACE8.-FREE OF RIDGES, WARPS, AND VOIDS.
3) COORDINATE INSTALLATION OF ROOF MOUNTED COMPONENTS, OR WORK PROJECTING THROUGH ROOF. VERIFY ROOF OPENINGS ARE FRAMED, SIZED, AND LOCATED PRIOR TO INSTALLING WORK OF THIS SECTION.
4) INSTALL DOUBLE LAYER OF SHINGLES OVER UNDERLAYEMENT AS STARTER COURSE. INSTALL UNDERLAYMENT AT EAVES AND GABLES AS SPECIFIED BELOW.
5) LAP UNDERLAYMENT OVER TOP 3 INCHES OF EACH ROW OF SHINGLES AND ONTO SHEATHING.
6) COMPLETED INSTALLATION SHALL FURNISH WEATHERTIGHT SERVICE.
B. EAVE PROTECTION INSTALLATION
1) PLACE EAVE EDGE AND GABLE EDGE FLASHINGS TIGHT TO FACIA BOARDS. WEATHER LAP JOINTS 2 INCHES AND SEAL WITH PLASTIC CEMENT. SECURE DECK FLANGE WITH FASTENERS SPACED 6 INCHES CC.
2) APPLY 4 INCH WIDE BAND OF PLASTIC CEMENT OVER DECK FLANGE OF EAVE EDGE FLASHINGS, AND EMBED AN 18 INCH WIDE STRIP OF UNDERLAYMENT. PLACE UNDERLAYMENT WITH EAVE EDGEFLUSH WITH FACE OF FLASHINGS. SECURE IN PLACE. LAP ENOS MINIMUM 6 INCHES.
3) APPLY LAP CEMENIT AT RATE OF APPROXIMATELY 1-1/4 GAL/SQUARE ON UNDERLAYMENT STARTER STRIP.
4) STARTING FROM EAVE EDGE OF STARTER STRIP, LAY ADDITIONAL 36 INCH WIDE STRIPS OF UNDERLAYMENT IN LAPENT, TO PRODUCE A TWO PLY MEMBRANE. WEATHER LAP PLIES MINIMUM 19 INCHES AND NAIL IN PLACE. LAP ENDS MINIMUM 6 INCHES. STAGGER END JOINTS OF EACH CONSECUTIVE PLY.
C. UNDERLAYMENT INSTALLATION
1) PLACE ONE PLY OF UNDERLAYMENT OVER AREA NOT PROTECTED BY EAVE MEMBRANE, WITH ENDS AND EDGES AITHERLAPPED MINIMUM 4 INCHES. STAGGER END LAPS OF EACH CONSECUTIVE LAYER. NAIL PROTECTIVE UNDERLAYMENTTO HOLD IN PLACE.
2) INSTALL PROTECTIVE UNDERLAYMENT PERPENDICULAR TO SLOPE OF ROOF.
3) WEATHER LAP UNDERLAYMENT MINIMUM 4 INCHES OVER EAVE MEMBRANE.
4) WEATHER LAP AND SEAL ITEMS PROJECTING THROUGH OR MOUNTED ON ROOF WITH PLASTIC CEMENT.
D. FLASHING INSTALLATION
1) INSTALL FLASHINGS IN ACCORDANCE WITH CSSB REQUIREMENTS.
2) WEATHER LAP JOINTS MINIMUM 2 INCHES AND SEAL WITH PLASTIC CEMENT. SECURE IN PLACE WITH FASTENERS AT6 INCHES OC. CONCEAL FASTENINGS.
3) HEADWALLFLASHING:
A) HEADWALLFLASHING SHALL EXTEND A MINIMUM OF'5INCHES ON EACH SIDE.
B) HEADWALL FLASHING SHALL PREFORMED TO ROOF/WALL ANGLE.
E. SHINGLE INSTALLATION
1) LAY SHINGLES IN ACCORDANCE WITH CSSB REQUIREMENTS. ALLOW 1/3 MAXIMUM EXPOSURE OF SHINGLE LENGTH. STAGGER TO AVIOD VERTICAL ALIGNMENT OF JOINTS.
2) INSTALL WITH EVEN-BUTT AND OPEN KEY WAY.
3) PROVIDE DOUBLE COURSE AT EAVES. EXTEND FIRST COURSE L-1/2 INCHES BEYOND FACE OF FACIA BOARDS.
4) SHINGLES SHALL BE SPACED 1/4 TO 3/8 INCH APART.
5) FASTENING:
A) FASTENERS SHALL BE DRIVEN FLUSH TO THE WOOD SURFACE, AND SHALL NOT BE OVER-DRIVE TO CRUSH THE WOOD FIBERS.
B) PLACE FASTENERS _"H TO 1"H FROM THE EDGE OF THE SHINGLE, AND 1"H TO 2"H ABOVE THE BUTT LINE OF THE COURSE TO FOLLOW.
6) JOINTS SHALL BE OFFSET 1-112 INCH, AND JOINTS IN 3 ADJACENT COURSES SHOULD NIOT BE IN ALIGNMENT.
F. FINISH
1) SHINGLES: AS INDICATED AND SCHEDULED ON THE DRAWINGS.
1. GENERAL
A. SECTION INCLUDES:
1) EXTERIOR WOOD SHINGLE SIDING.
2) EXTERIOR WOOD MOULDINGS AND TRIM.
3) AIR-MOISTURE BARRIER.
4) METAL SUBFRAMING.
5) RIGID INSULATION
6) RELATED FLASHINGS, ACCESSORIES, AND FASTENINGS.
B. SUBMITIALS:
1) SAMPLES: EACH TYPE OF SIDING, MOULDING AND TRIM FURNISHED UNDER THIS SECTION. SAMPLES SHALL BE ACCURATE REPRESENTATIONS OF MATERIALS WHICH WILL 8E INSTALLED IN THE WORK AND SHALL BE LARGE ENOUGH TO SHOW CHARACTERISTICS OFTHE MATERIALS WHICH WILL BE VISIBLE IN THE FINISHED WORK. SIDING PURCHASE SHALL NOT OCCUR UNTIL SAMPLES ARE APPROVED BY THE ARCHITECT.
2. PRODUCTS
A. SIDING MATERIALS:
1) SHAKES: NUMBER 1 EASTEN WHITE CEDAR SHAKE, CUSTOM MANUFACTURED BY DOW'S MILL, FIRE TREATED BY SUPPLIER. HAND SPLIT, 24 INCH LENGTH, WITH HEAVY _ INCH BUTT LAID 8 INCHES TO THE WEATHER. SHAKE WIDTHS NO LESS THAN 4 INCHES, CONFIRM AVERAGE WIDTH AND MAXIMUM RANGE.
2) ROOF GRADE: NO KNIOTS, CLEAR WOOD IN THE 8"H EXPOSURE ZONE.
3) WOOD MOULDINGS AND TRIM: AS INDICATED AND SCHEDULED ON THE DRAWINGS.
B. AIR EMOISTURE BARRIER: PROVIDED UNDER THE WORK OF SECTION 072700.
C. FLEXIBLE FLASHING: HENRY COMPANY ‹BLUESKIN ‹ 40 MIL THICKNESS.
D. SHEET METAL FLASHING AND TRIM. PROVIDED UNDER THE WORK OF SECTION 076200.
E. ACCESSORIES:
1) SUBFRAMING:
A) HORIZONTAL SUB-GIRT SYSTEM: ASTM A653; 18 GAGE (0.047 INCH) ROLL-FORMED, GALVANIZED STEEL 02" SHAPED GIRTS; HOT DIP GALVANIZED.
B) VERTICAL FURRING CHANNELS: APPROXIMATELY 2-112 ‹ X 118 ‹HAT PROFILE; GALVANIZED.
2) PLYWOOD SHEATHING: 3/4 INCH THICK FIRE TREATED EXTERIOR GRADE SHEATHING PROVIDED UNDER THE WORK OF SECTION 061000.
3) EXTRUDED CELLULAR POLYSTYRENE BOARD: PROVIDED UNDER THE WORK OF SECTION 072100.
4) FASTENERS: HOT DIPPED GALVANIZED OR STAINLESS STEEL; COUNTERSUNK; SELF TAPPING FOR STEEL FRAMING; SUFFICIENT LENGTH TO PENETRATE METAL FRAMING A MINIMUM OF 112 INCH.
5) SHINGLE NAILS: HOT-DIPPED GALVANIZED STEEL, OR STAINLESS STEEL; SUFFICIENT LENGTH TO PENETRATE SHEATHING 1/2' TO 314"; 3D FOR 18' SHINGLES.
6) PRIMER: PROVIDED UNDER THE WORK OF SECTION 099000.
3. EXECUTION
A. EXAMINATION
1) PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE P POINT WHERE WORK OFTHIS SECTION MAY PROPERLY COMMENCE. NOTIFYTHE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
2) DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
B. PREPARATION:
1) BACK KERFING: BACK KERF TRIM WHERE NECESSARY TO PREVENT WARPAGE AND WHERE INDICATED ON DRAWINGS.
2) EXTERIOR WOOD SHINGLES SIDING MOULDINGS ANO TRIM: IF PREPRIMED MATERIAL IS NOT USED, AFTER SITE ACCLIMATION AND PRIOR

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TO INSTALLATION, PRIME SIDING AND TRIM IN ACCORDANCE WITH SECTION 099000. PRIME ALL SIDES AND EDGES. PRIME ALL FIELD CUT EDGES,
C. INSTALLATION - GENERAL
1) INSTALL SHAKES 8 INCH LAID TO THE WEATHER. SHINGLES WIDTHS NO LESS THAN 4 INCHES, CONFIRM AVERAGE AND MAXIMUM RANGE.
2) SUPPORTFRAMING INSTALLATION:
A) COORDIANTE INSTALLATION OF SUPPORTFRAMING WITH INSTALLATION OF THE RIGID INSULATION PROVIDED IN SECTION 072100.
B) SCREW FASTEN Z SHAPED HORIZONTAL SUB GIRT SYSTEM OVER METAL FRAMING AS NECESSARY TO RECEIVE RIGID INSULATION, PLYWOOD SHEATHING AND WOOD SHINGLES AND TRIM.
C) ARRANGE Z FURRING TO ORAIN WATER TO THE OUTSIDE OF THE BUILDING.
D) SCREW FASTEN PLYWOOD SHEATHING TO Z FURRING GIRT SYSTEM
3) LIQUID APPLIED AIR-MOISTURE BARRIER SYSTEM: INSTALL OFER PLYWOOD SHEATHING; REFER TO SECTION 072700
4) INSTALL METAL FLASHINGS AT SILLS, AND HEAD OF WALL OPENINGS TO ENSURE WATER FLOW TO THE EXTERIOR.
5) FLEXIBLE FLASHING:
A) PROVIDE 6 INCH WIDE FLEXIBLE FLASHING STRIPS AT WINDOW, DOOR, AND OTHER WALL PENETRATIONS.
B) LAP TO THE FRAME OF THE PENETRATING ELEMENT AS NECESSARY SEAL PERIMETER JOINT, BUT NOT SO THAT THE MEMBRANE WILL BE EXPOSED IN THE FINISHED WORK.
C) INSTALL STRIPS IN SEQUENCE; FIRST ATTHE SILL, NEXT ATTHE JAMB, AND LAST ATTHE HEAD CONDITION. LAP ALL STRIPS TO WEATHER.
D) INTEGRATE FLEXIBLEFLASHING WITH BUILDING AIR-MOISTURE BARRIER AND RELATED METAL FLASHING AS NECESSARYTO SHED WATER AND LAP TO WEATHER
6) VERTICAL FURRING CHANNELS AT MOO PANEL SIDING;
A) INSTALL FURRING AND SUPPORTING MEMBERS SIZED AND ACCURATELY LOCATED TO RECEIVE FASTENERS.
B) SCREW FASTEN VERTICAL HAT PROFILE FURRING CHANNELS TO HORIZONTAL SUB GIRT SYSTEM THROUGH SHEATHING TO METAL FRAMING SYSTEM.
7) GENERAL INSTALLATION REQUIREMENTS FOR SIDING AND TRIM:
A) ARRANGE COMPONENTS TO ENCOURAGE WATERSHED. SECURELY FASTEN IN PLACE, ALIGNED, LEVEL, AND PLUMB. CUT 80ARD ENDS OVER BEARING SURFACES.
B) EXERCISE CARE WHEN SITE CUTTING. CUT EDGES SHALL BE SMOOTH AND CLEAN. SEAL PRIME ALL CUT EDGES.
C) ALLOW 1/8 INCH SPACE FOR SEALANT IF INDICATED AT ADJACENT CONSTRUCTION, AND BETWEEN SIDING AND TRIM.
D) ALIGN COURSING WHEREVER POSSIBLE.
E) FABRICATE EXPOSED SURFACES OF SPECIAL SHAPES TO A UNIFORM PROFILE FREE OF SAW MARKS AND OTHER SURFACE IRREGULARITIES.
F) COMPONENTS SHALL BE PLUMB AND LEVEL UNLESS INDICATED OTHERWISE.
8) GENERAL FASTENING REQUIREMENTS:
A) WOOD SHAKES AND TRIM INSTALL USING NAILS AND SCREWS INTO PLYWOOD SHEATHING.
B) SURFACES TO RECEIVE PAINT: COUNTERSINK NAILS AND SCREWS AND PUTTY OVER FLUSHWITH AOJACENT SURFACES.
C) ARRANGE FOR ORDERLY FASTENING PATIERN.
D) ADHESIVE JOINTS SHALL HAVE NO SQUEEZE OUT.
9) SHINGLE INSTALLATION:
A) LAY SHAKES IN ACCORDANCE WITH CSSB REQUIREMENTS TO PRODUCE STRAIGHT COURSING PATIERN WITH 8 INCH WEATHER EXPOSURE. ALLOW 1/3 MAXIMUM EXPOSURE OF SHINGLE LENGTH. STAGGER TO AVIOD VERTICAL ALIGNMENT OF JOINTS.
B) INSTALL WITH EVEN-BUTT AND OPEN KEY WAY.
C) PROVIDE DOUBLE COURSE AT WALL BASES.
D) SHAKES SHALL BE SPACED 1/4 INCH APART.
E) JOINTS SHALL BE OFFSET 1-1/2"H , AND JOINTS IN 3 ADJACENT COURSES SHOULD NOTBE IN ALIGNMENT.
F) FASTENING:
(1) FASTENERS SHALL BE DRIVEN FLUSH TO THE WOOD SURFACE, AND SHALL NOT BE OVERDRIVEN TO CRUSH THE WOOD FIBERS.
(2) PLACE FASTENERS _"H TO 1"H FROM THE EDGE OFTHE SHINGLE AND 1"H TO 2"H ABOVE THE BUTT LINE OF THE COURSE TO FOLLOW.
G) LAID UP, PANELIZED SYSTEM IS ALLOWABLE.
10) TRIM:
A) SCREW SECURELY AT EACH SUPPORT.
B) AT SOLID BACKING, FASTEN SECURELY WITH SCREWS 1"H FROM THE EDGE AT 12"H ON CENTER.
C) ALLOW SPACE FOR SEALANT AND FLASHING.
11) FINISH
A) SHAKES: AS SCHEDULED IN DRAWINGS IN ACCORDANCE WITH SECTION 099000.

076200 SHEET METAL FLASHING AND TRIM

A. SUBMITTALS:
1. SUBMIT THREE SAMPLES REPRESENTATIVE OF FINISH AND COLOR OF FLASHING MATERIALS EXPOSED TO VIEW IN THE FINISHED WORK.
2. SHOP DRAWINGS: INDICATE MATERIAL, PROFILE, JOINTING PATTERN, JOINTING DETAILS, MATERIALS, GAGES, FASTENING METHODS, AND INSTALLATION DETAILS.

B. QUALITY ASSURANCE:
1. APPLICATOR: COMPANY SPECIALIZING IN SHEET METAL FLASHING WORK WITH 5 YEARS MINIMUM EXPERIENCE.
2. UNLESS INDICATED OR SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH THE RECOMMENDATIONS OF SMACNA.

C. MATERIALS:
1. GALVANIZED STEEL SHEET: ASTM A525; G90 GALVANIZED FINISH, EXCEPT PROVIDE A60 WHERE SPECIAL FINISH IS USED.
2. ACCESSORIES:
A. FASTENERS FOR GALVANIZED STEEL SHEET: GALVANIZED STEEL; SOFT NEOPRENE WASHERS AT EXPOSED FASTENERS. FINISH EXPOSED FASTENERS SAME AS FLASHING METAL.
B. BUTYL RUBBER SEALANT: ONE OF THE FOLLOWING:
1) (CURTAIN WALL SEALANT, BY TREMCO;
2) (ADCOSEAL BP-400, BY ADCO PRODUCTS, INC.
C. POLYURETHANE SEALANT: ONE OF THE FOLLOWING:
1) (CHEM-CALK 900, BY BOSTIK CONSTRUCTION PRODUCTS DIVISION OF EMHART;
2) (DYNATROL I, BY PECORA CORP;
3) (SONOLASTIC NP I, BY SONNEBORN-CONTECT;
4) (RUBBER CAULK 6000, BY PRC.
D. FLEXIBLE FLASHING: "VYCOR ULTRA," BY W.R. GRACE (800-354-5414), OR APPROVED.
E. REGLETS: TYPES AS INDICATED; GALVANIZED STEEL OR RIGID EXTRUDED PVC; MANUFACTURED BY FRY REGLET CO. OR APPROVED; ENDS COVERED WITH PLASTIC TAPE.
F. LEAD SHEET: 4 PSF.

D. SPECIAL FINISH MATERIALS:
1. EPOXY PRIMER: TNEMEC SERIES SERIES 69 HI-BUILD EPOXOLINE II, CARBOLINE 888, AMERON "AMERCOAT 385," OR APPROVED.
2. URETHANE FINISH COATS: TNEMEC SERIES 75 "ENDURA-SHIELD III" ACRYLIC POLYURETHANE ENAMEL, CARBOLINE "D833," AMERON "AMERCOAT 450SA," OR APPROVED; SEMI-GLOSS OR SATIN

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SHEEN; CUSTOM COLORS AS SELECTED BY THE ARCHITECT.

E. FABRICATION:
1. FABRICATE ALL FLASHING TO DETAIL AND AS SPECIFIED. USE MINIMUM 24 GAGE GALVANIZED STEEL SHEET UNLESS INDICATED OR SPECIFIED OTHERWISE.
2. PARAPET CAPS: 22 GAGE; JOINTS IN ACCORDANCE WITH SMACNA PLATE 77, FIGURE A; BUTT AND BACKUP PLATE JOINT J2.
3. SCUPPERS: 20 GAGE GALVANIZED STEEL SHEET; SOLDERED JOINTS.
4.VENT FLASHING: SMACNA PLATE 66, FIGURES B AND C AS APPLICABLE.
5. SHOP FINISHES:
A. PREPARATION:
1) PREPARE SURFACES IN ACCORDANCE WITH THE SPECIAL FINISH MANUFACTURER'S RECOMMENDATIONS.
2) SOLVENT CLEAN IN ACCORDANCE WITH SSPC-SP1; ABRADE SURFACES WITH METAL PREPARATION PAD.
B. SPRAY APPLY PRIMER AND FINISH COATS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS; ONE COAT PRIMER; 1 FINISH COAT.
C. FINISH SHALL BE FREE OF DUST, DIRT, FLOW LINES, STREAKS, SAGS, BLISTERS, PINHOLES, RUNS, OR OTHER SURFACE IMPERFECTIONS.
D. PROVIDE SHOP FINISHED SHEET METAL AT ALL FLASHING AND SHEET METAL EXPOSED PORTIONS OF FLASHINGS, COPINGS, AND SCUPPERS.
F. INSTALLATION:
1. INSTALL STARTER AND EDGE STRIPS, AND CONTINUOUS CLEATS BEFORE STARTING INSTALLATION.
2. SURFACE MOUNTED REGLETS: INSTALL TRUE TO LINES AND LEVELS; SEAL TO WALL WITH NEOPRENE GASKET; SEAL TOP OF REGLETS WITH POLYURETHANE SEALANT.
3. INSERT FLASHINGS INTO REGLETS TO FORM TIGHT FIT; SECURE IN PLACE; SEAL FLASHINGS INTO REGLETS WITH POLYURETHANE SEALANT.
4. FASTENING:
A. SECURE FLASHINGS USING CONTINUOUS CLEATS WHENEVER POSSIBLE. USE EXPOSED FASTENERS ONLY IN SEMI-EXPOSED LOCATIONS, UNLESS APPROVED BY THE ARCHITECT.
B. FASTENERS SHALL BE PLACED AT 8 INCHES ON CENTER THROUGH SLOTTED HOLES.
C. FOR NAILING INTO CONCRETE, DRILL HOLES AND USE PLUGS.
D. FOR NAILING INTO WOOD, USE BARBED ROOFING NAILS, 1-1/4 INCHES LONG BY ELEVEN GAGE.
E. FIT FLASHINGS TIGHT IN PLACE. MAKE CORNERS SQUARE, SURFACES TRUE AND STRAIGHT IN PLANES, AND LINES
ACCURATE TO PROFILES.
F. MAKE WATERTIGHT CONNECTIONS BETWEEN SCUPPERS AND ADJACENT ROOFS, WALLS, AND FLASHINGS. SEAL ALL LAPS.
G. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF SURFACE MOUNTED REGLETS.
H. INSTALL FLASHINGS WITH PROVISION FOR PLUS OR MINUS 1/16 INCH THERMAL MOVEMENT AT EACH END; PROVIDE EXPANSION JOINTS AT 10'-0" O.C., MAXIMUM.
I. SEAL CONCEALED LAP JOINTS IN WITH TWO PARALLEL BEADS OF BUTYL SEALANT; USE BUTYL SEALANT WHERE BEDDING SEALANT IS INDICATED OR REQUIRED.
5. USE FLEXIBLE FLASHING IN LOCATIONS INDICATED, AND UNDER ALL COPINGS AND CURB FLASHINGS.

078400 FIRESTOPPING

A. SUMMARY: FIRESTOPPING MATERIAL FOR PENETRATIONS IN FIRE-RATED CONSTRUCTION.

B. SYSTEM DESCRIPTION:
1. EACH FIRESTOPPING SYSTEM SHALL BE SELECTED TO MAINTAIN FIRE RATING OF THE ASSEMBLY IN WHICH IT USED.
2. FIRESTOPPING SYSTEMS SHALL BE RESILIENT AS NECESSARY TO ACCOMMODATE DIFFERENTIAL MOVEMENT BETWEEN ASSEMBLIES.
3. WHERE FIRESTOPPING IS USED TO SEAL PENETRATIONS THROUGH FLOORS WITH WATERPROOF MEMBRANES, SYSTEM SHALL BE SELECTED FOR COMPATIBILITY WITH MEMBRANE MATERIAL.

C. QUALITY ASSURANCE:
1. PRIOR TO INSTALLATION OF FIRE STOPPING SYSTEMS OBTAIN APPROVAL FROM THE JURISDICTIONAL CODE AUTHORITIES FOR THE FIRE STOPPING SYSTEMS AND APPLICATIONS PROPOSED. NOTIFY THE ARCHITECT IF APPROVAL CANNOT BE OBTAINED.
2. FIRESTOPPING: TESTED IN ACCORDANCE WITH ASTM E119, ASTM E814, OR UL 1479 TO MEET THE HOURLY FIRE RATINGS OF THE CONSTRUCTION BEING SEALED. PROVIDE F RATED ASSEMBLIES, EXCEPT WHERE T RATED ASSEMBLIES ARE REQUIRED BY THE CODE AUTHORITY.
3. FIRESTOPPING SYSTEMS SHALL BE UL LISTED ASSEMBLIES.

D. PRODUCTS:
1. FIRESTOPPING SYSTEMS: SYSTEMS MEETING THE REQUIREMENTS SPECIFIED AND SUITABLE FOR THE CONDITIONS INDICATED.

E. INSTALLATION:
1. PROVIDE FIRESTOPPING AT MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS THROUGH FIRE RATED FLOORS,
WALLS, AND CEILINGS, AND OTHER LOCATIONS AS INDICATED ON THE DRAWINGS.
2. INSTALL FIRESTOPPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS NECESSARY TO MEET THE SPECIFIED FIRE RATING REQUIREMENTS.
3. WHERE FIRESTOPPING IS USED TO SEAL AROUND PENETRATIONS THROUGH WATERPROOF MEMBRANES, INSTALL TO MAINTAIN INTEGRITY OF WATERPROOF BARRIER.
4. PATCHING OF HOLES IN EXISTING CONSTRUCTION:
A. FILL OPEN HOLES WHICH REMAIN AFTER REMOVAL OF EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS, PATCH AND REPAIR HOLES AS NECESSARY TO MATCH THE ADJACENT CONSTRUCTION AND TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES. FIRESTOPPING SYSTEMS MAY BE USED TO FILL HOLES WHICH WILL BE CONCEALED IN THE FINISH CONSTRUCTION.
B. WHERE FIRESTOPPING SYSTEMS ARE USED TO FILL FLOOR OPENINGS IN OCCUPIED AREAS, PROVIDE MINIMUM 16 GAGE SHEET METAL COVERS AS NECESSARY TO SUPPORT FLOOR LOADS AND TO PREVENT DAMAGE TO THE FIRE STOPPING ASSEMBLIES. SECURE SHEET METAL AS NECESSARY TO PREVENT IRREGULARITIES FROM TELEGRAPHING THROUGH THE FLOOR FINISHES OVER THE SHEET METAL.

078500 FIRE RATED JOINTS

A. SUMMARY:
1. FIRE RATED CONSTRUCTION JOINT ASSEMBLIES IN FIRE-RATED CONSTRUCTION, INCLUDING JOINTS AT THE FOLLOWING LOCATIONS:
A.WHERE PARTITION HEADS MEET THE UNDERSIDE OF OVERHEAD FLOOR OR ROOF CONSTRUCTION.
B.WHERE FLOOR AND ROOF CONSTRUCTION MEETS EXTERIOR PERIMETER WALL CONSTRUCTION.
C.JOINTS IN FIRE RATED CONCRETE OR MASONRY WALLS.
2.REQUIREMENTS FOR FIRE RATED CONSTRUCTION JOINT ASSEMBLY COMPONENTS PROVIDED IN OTHER SECTIONS.

B. REFERENCES:
1.AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
A.E119 - METHOD FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS
2.UNDERWRITERS LABORATORIES (UL)
A.STANDARD 2079 - TESTS FOR FIRE RESISTANCE OF BUILDING JOINT SYSTEMS.
3.APPLICABLE CODES AND ORDINAN

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D. SYSTEM DESCRIPTION:
1.EACH FIRE RATED CONSTRUCTION JOINT ASSEMBLY SHALL BE SELECTED TO MAINTAIN FIRE RATING OF THE ASSEMBLY IN WHICH IT USED.
2.EACH FIRE RATED CONSTRUCTION JOINT ASSEMBLY SHALL BE RESILIENT AS NECESSARY TO ACCOMMODATE DIFFERENTIAL MOVEMENT BETWEEN ASSEMBLIES.

E. QUALITY ASSURANCE:
1.FIRE RATED CONSTRUCTION JOINT ASSEMBLIES: SUCCESSFULLY TESTED IN ACCORDANCE WITH ASTM E119, INCLUDING HOSE STREAM TEST, TO MEET THE HOURLY FIRE RATINGS OF THE CONSTRUCTION BEING SEALED.
2.FIRE RATED CONSTRUCTION JOINT ASSEMBLIES AT PARTITION HEADS SHALL HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH THE DYNAMIC REQUIREMENTS OF UL 2079, INCLUDING HOSE STREAM TEST, TO MEET THE HOURLY FIRE RATINGS OF THE CONSTRUCTION BEING SEALED.
3.FOR PROJECTS LOCATED IN THE CITY OF LOS ANGELES, FIRE RATED CONSTRUCTION JOINT ASSEMBLY SHALL BE IN COMPLIANCE WITH CITY OF LOS ANGELES RESEARCH REPORT 24962, OR AS OTHERWISE ACCEPTED BY THE CITY OF LOS ANGELES FOR THE APPLICATIONS.

F. FIRE RATED CONSTRUCTION JOINT ASSEMBLIES:
1.METAL STUD PARTITION HEAD CONSTRUCTION JOINT ASSEMBLY:
A.SYSTEM: BASED ON UL ASSEMBLIES LISTED ON THE DRAWINGS.
B.FIRE RATED RUNNER: "FIRE TRAK" BY FIRE TRAK CORPORATION, KIMBALL MN (612-398-7800).
C.GYPSUM BOARD: AS SPECIFIED IN SECTION 092900.
D.MINERAL WOOL PACKING MATERIAL AND VOID FILL MATERIAL PER UL RATED ASSEMBLIES FOR DYNAMIC WALL HEAD CONDITIONS AS DETAILED IN THE DRAWINGS.
2.METAL STUD PARTITION HEAD CONSTRUCTION JOINT ASSEMBLY: BASED ON UL ASSEMBLIES LISTED ON THE DRAWINGS.
A.FIRE RATED RUNNER: CONFORM TO SECTION 092200; MINIMUM 20 GAGE; MINIMUM 2 INCH LEGS.
B.GYPSUM BOARD: AS SPECIFIED IN SECTION 092900.
C.RESTRAINING ANGLES: AS SPECIFIED IN SECTION 092200.
D.FILL, VOID, OR CAVITY MATERIAL: USG TYPE FC "FIRE CODE" COMPOUND.
E.FORMING MATERIAL: 4 LBS/CF DENSITY; "THERMAFIBER" SAFING INSULATION BY USG INTERIORS, INC.; PREFORMED MINERAL FIBER; FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84; 4 LBS/CF USG CW40.

G. INSTALLATION:
1.INSTALL CONSTRUCTION JOINT ASSEMBLIES IN ACCORDANCE WITH THE FIRE RATED ASSEMBLIES LISTED, AND AS NECESSARY TO MEET THE SPECIFIED FIRE RATING REQUIREMENTS.
2.COORDINATE INSTALLATION OF INTEGRAL COMPONENTS AS NECESSARY TO ENSURE THE FIRE RATING OF THE ASSEMBLIES.

079200 JOINT SEALANTS

A. SECTION INCLUDES:
1. CLEANING AND PREPARATION OF JOINT SURFACES.
2. SEALANT AND BACKING MATERIALS.

B. SUBMITTALS:
1. PRODUCT DATA: FOR EACH TYPE OF SEALANT TO BE PROVIDED
2. SAMPLES:
A. SUBMIT CURED SAMPLES OF EACH SEALANT TYPE AND COLOR PROPOSED FOR THE WORK [INCLUDING SAMPLES OF SANDED SEALANT WHERE PROPOSED FOR USE WITH THE PRECAST AND STONE VENEER PANELS. FOR SANDED SAMPLES, SUBMIT A RANGE OF SANDED SEALANT SAMPLES FOR SELECTION].
B. FOR EACH SEALANT TYPE INDICATED FOR "COLOR AS SELECTED," OR FOR WHICH NO COLOR IS INDICATED, SUBMIT COLOR CARD INDICATING AVAILABLE STOCK COLORS FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS FOR EACH TYPE OF SEALANT.
3. SCHEDULE OF SEALANT COLORS AND RESPECTIVE LOCATIONS.

C. QUALITY ASSURANCE:
1. VERIFY THAT SEALANTS ARE COMPATIBLE WITH THE SUBSTRATES AND ACCESSORY MATERIALS PROVIDED UNDER OTHER SECTIONS. NOTIFY ARCHITECT OF EVIDENCE OF INCOMPATIBILITY.

D. GUARANTEE: FURNISH EXTERIOR SEALANT MANUFACTURER'S STANDARD GUARANTEE.

E. SEALANTS:
1. TYPE P: ASTM C920, TYPE M, GRADE NS, CLASS 25; TREMCO "DYMERIC," CHEM-CALK 500, PECORA "DYNATROL II," SONNEBORN "SONALASTIC NP-II", PRC "PERMAPOL RC-2," OR APPROVED.
2. TYPE PT: ASTM C920, TYPE M, GRADE P, CLASS 25; TREMCO "THC 900", SONNEBORN/CHEMREX "SONOLASTIC SL 2", PECORA "UREXPAN NR-200", OR APPROVED; STANDARD COLORS AS SELECTED.
3. TYPE PTNS:
A. SEALANTS SHALL MEET THE REQUIREMENTS OF SCAQMD RULE 1168 (MAXIMUM VOC CONTENT OF 250 GRAMS/LITER).
B. BOSTIK CHEM-CALK 2000.
C. CUSTOM COLORS TO MATCH THE ARCHITECT'S SAMPLES
4. TYPE A:
A. SEALANTS SHALL MEET THE REQUIREMENTS OF SCAQMD RULE 1168. (MAXIMUM VOC CONTENT OF 25 GRAMS/LITER).
B. "AC20+SILICONE" BY PECORA (800-523-6688). SELECT STANDARD COLORS TO MATCH ADJACENT CONSTRUCTION.
5. TYPE SM: MILDEW RESISTANT SILICONE SEALANT:
A. SEALANTS SHALL MEET THE REQUIREMENTS OF SCAQMD RULE 1168. (MAXIMUM VOC CONTENT OF 250 GRAMS/LITER)
B. "898 SILICONE" BY PECORA (800-523-6688), OR APPROVED. SELECT STANDARD COLOR TO MATCH ADJACENT FINISHES AS CLOSE AS POSSIBLE; CLEAR COLOR.

F. SILICONE SEALED COMPRESSIBLE FOAM TAPE:
1. PREFORMED SILICONE SEALING STRIP OVER PRECOMPRESSED SELF-ADHESIVE OPEN CELL POLYURETHANE FOAM TAPE; COLOR AS INDICATED ON THE DRAWINGS; "MM COLOR JOINT / ESS SERIES" BY MM SYSTEMS, LTD., "
2. FURNISH TAPE IN THICKNESS RECOMMENDED BY THE MANUFACTURER FOR WIDTHS OF JOINTS TO BE FILLED.

G. ACCESSORY MATERIALS:
1. PRIMER: NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.
2. JOINT CLEANER: NON-CORROSIVE AND NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS.
3. BACKER ROD: CLOSED OR OPEN CELL FOAM AS RECOMMENDED BY THE SEALANT MANUFACTURER FOR THE APPLICATION; ROUND PROFILE; THICKNESS APPROXIMATELY 130 PERCENT OF JOINT WIDTH.
4. BOND BREAKER: PRESSURE SENSITIVE TAPE RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.

H. PREPARATION:
1. CLEAN AND PREPARE JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE ANY LOOSE MATERIALS AND OTHER FOREIGN MATTER WHICH MIGHT IMPAIR ADHESION OF SEALANT.
2. APPLY MASKING TIGHTLY AROUND JOINTS TO PROTECT ADJACENT SURFACES FROM EXCESS SEALANT.
3. PRIME AS REQUIRED FOR PROPER BOND TO SUBSTRATE MATERIALS.
4. BACKING MATERIALS:
A. PLACE BACKER ROD TO ACHIEVE PROPER SEALANT WIDTH/DEPTH RATIOS AND TO PREVENT SEALANT SAG.
B. USE BOND BREAKER WHERE THERE IS INSUFFICIENT DEPTH TO USE JOINT FILLER.
C. DO NOT USE BACKER ROD AND BOND BREAKER AT JOINTS TO RECEIVE TYPE PTNS SEALANT.

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I. SILICONE SEALED COMPRESSIBLE FOAM TAPE INSTALLATION:
1. INSTALL AT EXTERIOR EXPANSION JOINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. INSTALL SUFFICIENTLY DEEP TO ACCOMMODATE THE INSTALLATION OF THE SILICONE SEALANT.

J. INSTALLATION:
1. PERFORM WORK IN ACCORDANCE WITH ASTM C1193, UNLESS SPECIFIED OTHERWISE OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER.
2. JOINT DEPTH:
A. SEALANT BEADS SHALL HAVE A SECTIONAL WIDTH TO DEPTH RATIO OF 2 TO 1, UNLESS SPECIFIED OTHERWISE OR RECOMMENDED OTHERWISE BY THE SEALANT MANUFACTURER.
B.INSTALL TYPE PTNS SEALANT FULL DEPTH IN TILE EXPANSION JOINTS WITH NO BACKER ROD.
3. APPLY SEALANT WITHIN RECOMMENDED TEMPERATURE RANGES. CONSULT MANUFACTURER WHEN SEALANT CANNOT BE APPLIED WITHIN RECOMMENDED TEMPERATURE RANGES.
4. TOOLING:
A. TOOL JOINTS CONCAVE, UNLESS INDICATED OR SPECIFIED OTHERWISE. FINISH FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS.
B. TOOL TYPE PTNS SEALANT TO MATCH GROUT JOINT.
5. JOINT SANDING: SAND TYPE S SEALANT JOINTS AS SCHEDULED BELOW. IMMEDIATELY AFTER TOOLING AND PRIOR TO SKINNING OVER OF SEALANT, BROADCAST SAND ONTO SURFACE OF SEALANT. RETOOL BY ROLLING A DOWEL OVER THE JOINT TO ACHIEVE SUFFICIENT EMBEDMENT. MAINTAIN UNIFORM APPEARANCE.

K. CLEAN-UP:
1. CLEAN ADJACENT SURFACES FREE OF EXCESS SEALANT AS THE WORK PROGRESSES. USE CLEANING AGENTS RECOMMENDED BY THE SEALANT MANUFACTURER.
2. UPON COMPLETION, REMOVE AND DISPOSE OF MASKING.

L. SCHEDULE:
1. TYPE P: PROVIDE AT ALL EXTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE; STANDARD COLORS AS SELECTED FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS.
2. TYPE PT: PROVIDE AT ALL EXTERIOR AND INTERIOR HORIZONTAL JOINTS SUBJECT TO TRAFFIC AND ABRASION, UNLESS SPECIFIED OTHERWISE; STANDARD COLORS AS SELECTED FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS.
3. TYPE PTNS: PROVIDE AT ALL EXPANSION JOINTS IN TILE; STANDARD COLORS AS SELECTED FROM MANUFACTURER'S COMPLETE LINE OF PRE-FORMULATED COLORS.
4. TYPE A: PROVIDE AT ALL INTERIOR JOINTS, UNLESS SPECIFIED OTHERWISE.
5. TYPE SM: PROVIDE AT JOINTS AROUND COUNTERTOPS RESTROOM AREAS.

DIV. 8 - DOORS & WINDOWS

081113 HOLLOW METAL DOORS AND FRAMES

A. SUMMARY:
1. ROLLED STEEL DOORS AND FRAMES.
2. INTERIOR SIDELIGHT AND WINDOW FRAMES.
3. ACCESSORIES.

B. REFERENCES:
1.NATIONAL FIRE PROTECTION ASSOCIATION (NFPA): NFPA 80 - FIRE DOORS AND WINDOWS.
2.STEEL DOOR INSTITUTE (SDI): SDI-105 - RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES.
3.AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): A250.8 - SDI-100 RECOMMENDED SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES.
4. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
A.A366 - SPECIFICATION FOR STEEL, CARBON, COLD ROLLED SHEET, COMMERCIAL QUALITY.
B.A569 - SPECIFICATION FOR STEEL, CARBON (0.15 MAXIMUM PERCENT), HOT ROLLED SHEET AND STRIP, COMMERCIAL QUALITY.
C. A653 - SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY HOT-DIP PROCESS.

C. SUBMITTALS:
1.PRODUCT LITERATURE: SUBMIT MANUFACTURER'S PUBLISHED LITERATURE FOR DOORS AND FRAMES.
2. SHOP DRAWINGS:
A.FRAMES: INDICATE CONFIGURATION, ANCHOR TYPES AND SPACINGS, LOCATION OF CUTOUTS FOR HARDWARE, REINFORCEMENT, AND FINISH.
B. DOORS: INDICATE ELEVATIONS, INTERNAL REINFORCEMENT, CLOSURE METHOD, AND CUTOUTS FOR HARDWARE, GLAZING AND LOUVERS.

D. QUALITY ASSURANCE:
1.CONFORM TO REQUIREMENTS OF ANSI A250.8.
2.REGULATORY REQUIREMENTS:
A. INSTALLED FRAME AND DOOR ASSEMBLY SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.
B. WHERE DOORS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED. ASSEMBLIES SHALL MEET CBC 715.3.1 REQUIREMENTS FOR POSITIVE PRESSURE.
C. FIRE RATED DOORS INTO STAIR SHAFTS AND HORIZONTAL EXIT PASSAGE WAYS SHALL BE CONSTRUCTED SO THAT MAXIMUM TRANSMITTED TEMPERATURE END POINT WILL NOT EXCEED 450 DEGREES F ABOVE AMBIENT AT THE END OF 30 MINUTES FIRE EXPOSURE, WHEN TESTED IN ACCORDANCE WITH CBC 714.2.4.
D. INCLUDE "S" LABEL ON FIRE RATED DOOR ASSEMBLIES WHICH ARE LOCATED AT 1 HOUR RATED EXIT CORRIDORS.

E. ACCEPTABLE MANUFACTURERS:
1.MEMBERS OF THE STEEL DOOR INSTITUTE AND OF THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURER'S, SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

F. MATERIALS:
1.STEEL SHEET: COLD ROLLED ASTM A366, OR HOT ROLLED PICKLED AND OILED SHEET CONFORMING TO ASTM A569.

G. DOORS:
1.ANSI A250.8; SEAMLESS.
2.MINIMUM 18 GAGE FACE SHEETS FOR INTERIOR DOORS; MINIMUM 16 GAGE FACE SHEETS FOR EXTERIOR DOORS.
3. CORE:
A.INTERIOR DOORS: VERTICAL STEEL STIFFENERS WITH SOUND DEADENING FILL BETWEEN STIFFENERS, OR RESIN IMPREGNATED KRAFT PAPER HONEY COMB CORE.
B. EXTERIOR DOORS: POLYSTYRENE OR POLYURETHANE FOAM CORE.
4. PROVIDE CONTINUOUSLY WELDED SEAMLESS EDGES.
5. CLOSE TOP EDGES OF EXTERIOR DOORS FLUSH WITH STEEL FILLER CAP; SEAL JOINTS WATERTIGHT.
6. CUT MORTISES FOR BUTTS USING APPROPRIATE TEMPLATES; UNIVERSAL NON-HANDED PREPARATION OF DOORS IS NOT ACCEPTABLE.

H. FRAMES:
1. DESIGN: DOUBLE EQUAL RABBET, UNLESS INDICATED OTHERWISE; FULLY WELDED.
2. PROVIDE 1 INCH RETURNS AT EXTERIOR FRAMES AS DETAILED TO SUPPORT BACKER ROD AND SEALANT.
3. GAGES:
A. EXTERIOR FRAMES: MINIMUM 14 GAGE.
B. INTERIOR FRAMES: MINIMUM 16 GAGE FOR FRAMES OF DOOR OPENINGS UP TO AND INCLUDING 4 FEET IN WIDTH; 14 GAGE FOR FRAMES GREATER THAN 4 FEET IN WIDTH.

I. ACCESSORIES:
1. GLAZING STOPS: ROLLED STEEL CHANNEL SHAPE, BUTTED CORNERS; PREPARED FOR COUNTERSINK STYLE TAMPERPROOF SCREWS.

DIV. 8 - DOORS & WINDOWS - cont.

J. FINISH:
1. EXTERIOR UNITS:
A. A60 HOT DIP GALVANIZED COATING CONFORMING TO ASTM A653.
B. INCLUDE REINFORCING AND OTHER INTERNAL COMPONENTS.
C. USE ZINC RICH PRIMER TO TOUCH-UP GALVANIZED COATINGS DAMAGED DURING FABRICATION.
D. APPLY MANUFACTURER'S STANDARD RUST INHIBITING PRIMER
2. INTERIOR UNITS: MANUFACTURER'S STANDARD RUST INHIBITIVE PRIMER.

K. INSTALLATION OF FRAMES:
1. INSTALL FRAMES IN ACCORDANCE WITH SDI-105 AND IN ACCORDANCE WITH LABELING REQUIREMENTS.
2. COORDINATE WITH WALL CONSTRUCTION FOR ANCHOR PLACEMENT.
3. COORDINATE INSTALLATION OF GLASS AND GLAZING.
4. INSTALL ACCESSORIES.
5. INSTALL ROLL FORMED STEEL REINFORCEMENT CHANNELS BETWEEN TWO ABUTTING FRAMES. ANCHOR TO STRUCTURE AND FLOOR.
6. INSTALLATION TOLERANCES; MAXIMUM DIAGONAL DISTORTION: 1/16 INCH MEASURED WITH STRAIGHT EDGE, CORNER TO CORNER.
7. DOOR AND HARDWARE INSTALLATION IS SPECIFIED IN SECTION 08730.

081400 WOOD DOORS

A. REGULATORY REQUIREMENTS:
1. CONFORM TO REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITY.
2. WHERE DOORS ARE NOTED WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, OR OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES, TO MEET THE HOURLY FIRE RATING NOTED.
3. INSTALLED FIRE RATED DOOR AND FRAME ASSEMBLIES SHALL CONFORM TO NFPA 80 FOR FIRE RATED CLASS INDICATED.

B. SUBMITTALS:
1. SUBMIT PRODUCT DATA.

C. SOLID CORE FLUSH DOORS:
1. AWI SECTION 1300, PREMIUM GRADE.
2. CORE: SOLID PARTICLE BOARD CORE, UNLESS REQUIRED OTHERWISE FOR FIRE LABELING REQUIREMENTS.
3. AWI PC-5 OR PC-7 (5 OR 7 PLY CONSTRUCTION).
4. PROVIDE LABELED DOORS AS REQUIRED TO MEET THE HOURLY FIRE RATING INDICATED.
5. FACE VENEER: MEDIUM DENSITY OVERLAY OR PAINT GRADE BIRCH.
6. 1-3/4 INCH THICK, UNLESS SCHEDULED OTHERWISE.

D. FABRICATION:
1. FABRICATE DOORS TO THE CONFIGURATIONS INDICATED, IN ACCORDANCE WITH THE AWI STANDARDS SPECIFIED, AND TO FIRE RATED LABELING REQUIREMENTS. ATTACH FIRE RATING LABELS.
2. BEVEL LOCK AND HINGE EDGES 1/8 INCH IN 2 INCHES ON ALL SINGLE ACTING DOORS.
3. BOND EDGE BANDING TO SOLID CORE WITH HOT MELT OR RF CURED ADHESIVE.
4. PREFIT AND PREMACHINE DOORS IN ACCORDANCE WITH AWI 1300-S-6. PREMACHINE FOR HARDWARE SPECIFIED IN SECTION 087100, AND LOCATE AS SPECIFIED IN SECTION 08739.
5. DOORS MAY BE FIELD FINISHED OR SHOP FINISHED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 099000, AT THE CONTRACTOR'S OPTION.
6. WHERE REQUIRED TO MEET LABELING REQUIREMENTS, PROVIDE METAL ASTRAGALS TO MEET RATING REQUIREMENTS FOR DOUBLE FIRE DOORS.
7. FLUSH DOOR BLOCKING: FOR FLUSH DOORS, PROVIDE SOLID LOCK BLOCKS AND SPECIAL BLOCKING AS REQUIRED FOR THE HARDWARE COMPONENTS SPECIFIED ELSEWHERE. BLOCKING FOR FIRE RATED DOORS SHALL MEET THE DOOR MANUFACTURER'S LABELING REQUIREMENTS.

E. INSTALLATION:
1. FIT AND PREPARE DOORS FOR INSTALLATION IN ACCORDANCE WITH THE DOOR MANUFACTURER'S PRINTED INSTRUCTIONS.
2. PROVIDE CLEARANCES OF 1/8 INCH AT JAMBS AND HEADS AND 3/8 INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING, EXCEPT WHERE THRESHOLD IS SHOWN OR SCHEDULED PROVIDE 1/4 INCH CLEARANCE FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.

083100 ACCESS DOORS

A. QUALITY ASSURANCE:
1. WHERE ACCESS DOORS ARE INSTALLED IN CONSTRUCTION WITH AN HOURLY FIRE RESISTANCE RATING, PROVIDE DOOR AND FRAME ASSEMBLIES LABELED BY UNDERWRITER'S LABORATORY, WARNOCK HERSEY, OR ANY OTHER TESTING LABORATORY APPROVED BY THE LOCAL CODE AUTHORITIES TO MEET THE REQUIREMENTS OF THE FIRE RATED ASSEMBLY.

B. INTERIOR ACCESS DOORS:
1. ACCEPTABLE MANUFACTURERS:
A. INTEXFORMS, INC.
B. MILCOR, INC., LIMA, OH.
C. J.L. INDUSTRIES, BLOOMINGTON, MN.
D. KARP ASSOCIATES, INC., MASPETH, NY.
E. MM SYSTEMS CORPORATION, TUCKER, GA.
F.NYSTROM, MINNEAPOLIS, MN
2. DOOR TYPES:
A. FIRE RATED METAL ACCESS DOOR:
1)FLUSH TYPE DESIGN.
2)16 GAGE FRAME; MINIMUM 20 GAGE STEEL WELDED PAN DOOR PANEL INSULATED WITH NON-COMBUSTIBLE FILLER
3) SELF CLOSING AND SELF LATCHING, WITH INTERIOR LATCH RELEASE
4) FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
5) RING TURN LATCH.
B. NON RATED METAL WALL AND CEILING ACCESS DOOR:
1) FLUSH TYPE DESIGN
2) 16 GAGE STEEL FRAME; 14 GAGE STEEL DOOR PANEL.
3) FOR INSTALLATION IN DRYWALL: INTEGRAL ATTACHMENT FLANGE AND DRYWALL BEAD FOR FLUSH INSTALLATION.
4) FULLY CONCEALED PIN TYPE HINGES OR CONTINUOUS PIANO HINGE, 175 DEGREE OPENING.
5) HARDWARE: SCREW DRIVER SLOT, QUARTER TURN CAM LOCK FOR INTERIOR LOCATIONS; 2'-0" O.C.,MAXIMUM.
C. NON RATED CONCEALED GFRG ACCESS PANEL:
1) INTEX A-PANEL BY INTEXFORMS, INC. 408 846-5667, NO SUBSTITUTIONS.
2) RECESSED TYPE DESIGN
3) DROP IN ACCESS DOOR
4) INTEGRAL ATTACHMENT FLANGE FOR FLUSH INSTALLATION
D. TOILET ROOM FAUCET POWER SUPPLY ACCESS DOORS: NON-RATED WALL TYPE; 12"W X 12" H; STAINLESS STEEL, #4 FINISH; ONE PIECE FRAME; CONCEALED HINGE.
3. EXTERIOR ACCESS DOORS:
A. INSULATED EXTERIOR ACCESS DOOR:
1) AS SPECIFIED: XT SERIES WITH KEY OPERATED CHROME PLATED STEEL HANDLE BY NYSTROM (MINNEAPOLIS, MN; 800/547-2635)
2) ACCEPTABLE SUBSTITUTION: WB-EXT EXTERIOR ACCESS DOOR BY THE WILLIAM BROTHERS CORP. OF AMERICA (RENO NV)

C. MINIMUM SIZES: PROVIDE ACCESS DOORS IN SIZES INDICATED. WHEN NOT INDICATED PROVIDE 12" X 12" SIZE FOR HAND ACCESS, AND 24" X 24" SIZE FOR MAN ENTRY.

D. INSTALLATION:
1. PROVIDE ACCESS DOORS IN THE LOCATIONS INDICATED.
2. ACCESS DOORS REQUIRED FOR ACCESS TO BALANCING AND FIRE DAMPERS, TRAP PRIMERS, VALVES, FANS, TERMINAL UNITS, AND OTHER EQUIPMENT REQUIRING PERIODIC INSPECTION THROUGH FINISHED WALLS OR CEILING, WHETHER INDICATED OR NOT, ARE SUBJECT TO ARCHITECTS PRIOR APPROVAL OF LOCATIONS.
3. COORDINATE ACCESS REQUIREMENTS WITH OTHER TRADES.
4. PROVIDE CONCEALED DRYWALL ACCESS DOORS UNLESS FIRE RATED ACCESS DOORS ARE REQUIRED BECAUSE OF FIRE RATED CONSTRUCTION.

DIV. 8 - DOORS & WINDOWS - cont.

087100 DOOR HARDWARE

A. SUBMITTALS:
1. HARDWARE SCHEDULE: SUBMIT TO THE ARCHITECT, IN TRIPLICATE, A COMPLETE SCHEDULE OF PROPOSED FINISH HARDWARE. SCHEDULE SHALL BE COMPLETELY DETAILED, SHOWING ALL ITEMS, NUMBERS AND FINISHES FOR ALL HARDWARE FOR EACH SEPARATE OPENING.

B. SUPPLIER QUALIFICATIONS: FINISH HARDWARE SHALL BE SUPPLIED BY RECOGNIZED BUILDERS' HARDWARE SUPPLIER WHO HAS BEEN FURNISHING HARDWARE IN THE SAME AREA AS THE PROJECT FOR A PERIOD OF NOT LESS THAN FIVE YEARS.
THE SUPPLIER'S ORGANIZATION SHALL INCLUDE CONSULTANTS WHO ARE AVAILABLE AT ALL REASONABLE TIMES DURING THE COURSE OF THE WORK TO MEET PERSONALLY WITH THE OWNER, ARCHITECT, OR CONTRACTOR FOR HARDWARE CONSULTATION. THE SUPPLIER SHALL MAINTAIN A PARTS INVENTORY OF ITEMS SUPPLIED FOR FUTURE SERVICE TO THE OWNER.

C. KEYS & KEYING:
1. ALL CYLINDER ITEMS SHALL BE KEYED AS DIRECTED BY THE OWNER.
2. KEYS: FURNISH 3 FOR EACH CYLINDER UNIT.

D. INSTALLATION:
1. MARK EACH ITEM OF HARDWARE AS TO DESCRIPTION AND LOCATION OF INSTALLATION IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE.
2. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.
3. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS. WHEREVER CUTTING AND FITTING ARE REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, INSTALL EACH ITEM COMPLETELY AND THEN REMOVE AND STORE IN A SECURE PLACE DURING THE FINISH OPERATION. AFTER COMPLETION OF THE FINISHES, REINSTALL EACH ITEM. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
4. HARDWARE MOUNTING HEIGHTS: MOUNTING HEIGHTS ARE BASED ON RECOMMENDATIONS OF THE NATIONAL BUILDERS HARDWARE ASSOCIATION (NBHA). GENERALLY, MOUNT HARDWARE UNITS AT THE FOLLOWING LOCATIONS ON EACH DOOR OR DOOR OPENING, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED TO MEET CODE AND HANDICAPPED REQUIREMENTS.VERIFY ANY CONFLICTS WITH LOCATION OF OTHER HARDWARE FOR PROPER CLEARANCES FOR INSTALLATION PRIOR TO CUTTING OR MILLING FOR SPECIFIED HARDWARE. NOTIFY ARCHITECT IMMEDIATELY IF SUCH CONFLICTS ARE DETERMINED.
A. LATCH AND LOCKSETS: 38 INCHES FINISH FLOOR TO CENTER OF KNOB.
B. DEAD LOCKS: 52 INCHES FINISH FLOOR TO CENTER OF CYLINDER.
C. EMERGENCY EXIT CROSS BAR: 36 INCHES FROM FINISH FLOOR.
D. PUSH/PULL: 42 INCHES FINISH FLOOR TO CENTERLINE OF PUSH/PULL.
E. PUSH PLATE: 1/2 INCH FROM EDGE OF DOOR; 42 INCHES TO CENTER LINE OF PLATE, EXCEPT 45 NCHES WHERE INDEPENDENT OF THE PUSH/PULL.
F. KICK PLATES: MOUNT AT BOTTOM EDGE OF DOOR AND 1/2 INCH FROM OUTSIDE EDGE OF DOOR.;
G. TOP HINGE: 5 INCHES FROM TOP OF DOOR TO TOP OF HINGE.
H. BOTTOM HINGE: 10 INCHES FROM FINISH FLOOR TO BOTTOM OF HINGE.
I. CENTER HINGE: EQUAL DISTANCE BETWEEN TOP AND BOTTOM HINGES.
J. MULTIPLE HINGE LOCATIONS SHALL BE EQUALLY SPACED BETWEEN TOP AND BOTTOM HINGE.
K. WALL STOPS: CENTERLINE OF KNOB OR POINT OF FIRST CONTACT.
L. THRESHOLDS: MOUNT AT EXTERIOR DOORS SUCH THAT SLOPE BREAKPOINT ON THRESHOLD IS AT LEAD EDGE OF DOOR. SET IN FULL BED OF CAULKING MATERIAL.
M. CLOSING: MOUNT FOR MAXIMUM DEGREE OF OPENING OBTAINABLE CONSIDERING OTHER HARDWARE PROVIDED AND OPENING CONDITIONS. SIZE CLOSERS FOR CONDITIONS AND CODE REQUIREMENTS.
N. TRIM/PROTECTION: KICKPLATE SHALL BE 2" LDW X HEIGHT INDICATED.
O. OTHER HARDWARE ITEMS SHALL BE LOCATED AS RECOMMENDED BY NBHA, OR AS MAY BE SHOWN OR REQUIRED OTHERWISE.
5. ADJUSTING AND CLEANING: ADJUST AND CHECK EACH OPERATING ITEM OF HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION. CLEAN DOOR AND HARDWARE.

E. HARDWARE GROUPS: AS INDICATED ON THE DRAWINGS

88000 GLAZING

A. SUMMARY:
1. REQUIREMENTS FOR CANOPY GLASS.
2. GLASS AND GLAZING FOR INTERIOR AND EXTERIOR STOREFRONTS AND ENTRANCES.
3. INTERIOR GLAZING
B. QUALITY ASSURANCE:
1. EXTERIOR STRUCTURAL GLAZING:
a. SUBMIT EXTERIOR STRUCTURAL GLAZING DESIGNS TO SEALANT MANUFACTURER FOR ANALYSIS. SUBMIT SAMPLE MATERIALS, AND ALL OTHER DATA AND COMPONENTS FOR TESTING AS REQUIRED BY THE MANUFACTURER.
b. OBTAIN WRITTEN APPROVALS AND RECOMMENDATIONS FOR THE STRUCTURAL GLAZING DESIGN SYSTEMS FROM THE STRUCTURAL GLAZING SEALANT MANUFACTURER.
C. GLASS: PROVIDE THE FOLLOWING GLASS AS SCHEDULED AT THE END OF THIS SECTION:
1. CLEAR GLASS: ASTM C1036, TYPE I, CLASS 1, CLEAR, QUALITY Q3 GLAZING SELECT.
D. ACCESSORIES:
1. SILICONE SEALANT: DOW CORNING "795"; COLOR AS INDICATED ON THE DRAWINGS.
2. SETTING BLOCKS: COMPATIBLE WITH SILICONE SEALANTS; 70-90 SHORE A HARDNESS.
3. SPACERS: COMPATIBLE WITH SILICONE SEALANT.
4. GLAZING TAPE: TREMCO "CCN" SPONGE, OR APPROVED.
5. STRUCTURAL GLAZING SEALANT: DOW-CORNING "795," "995," OR "983" (2 COMPONENT FOR SHOP APPLICATION) GENERAL ELECTRIC "ULTRAGLAZE 4000," OR ULTRAGLAZE 4400 (2 COMPONENT FOR SHOP APPLICATION); SILICONE GLAZING SEALANT; CLEAR.
E. FABRICATION:
1. INSULATING GLASS UNITS:
a. DUAL LITE UNITS FABRICATED FROM GLASS AS SCHEDULED; 1/2 INCH NOMINAL AIRSPACE; DUAL SEAL SYSTEM.
b. TWIN SEALS; POLYISOBUTYLENE PRIMARY SEAL AND SILICONE SECONDARY SEAL. OUTER SEAL SHALL BE COMPATIBLE WITH GLAZING SYSTEM.
c. SPACER BAR: MILL FINISH BLACK; FILL WITH DESICCANT; CORNERS SHALL BE PARTIALLY MITER CUT AND BENT (NOT CUT THROUGH), OR FORMED WITH CORNER KEYS ULTRASONICALLY SOLDERED IN PLACE.
d. CERTIFIED THROUGH THE INSULATING GLASS CERTIFICATION COUNCIL (IGCC) IN ACCORDANCE WITH ASTM E773 AND E774; CERTIFIED TO LEVEL CBA.
e. EACH PIECE SHALL BEAR CERTIFICATION NUMBER, DATE, AND MANUFACTURER'S IDENTIFICATION MARK.
2.TEMPERED AND HEAT STRENGTHENED GLASS:
TEMPERED GLASS: GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN 4 TIMES THE ANNEALED STRENGTH; CERTIFIED SAFETY GLASS IN ACCORDANCE WITH ANSI Z97.1.
a. HEAT STRENGTHENED GLASS: ASTM C1048; GLASS WHICH HAS BEEN HEAT TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THAN TIMES ANNEALED STRENGTH.
b. FABRICATE TEMPERED AND HEAT STRENGTHEN

DIVISION 8 - DOORS & WINDOWS - cont.

B. FILM:
1) MANUFACTURER: SOLUTIA INC., SPRINGFIELD, MA (413-730-2507).
2) TYPE: POLYVINYL BUTYRAL SHEETS, UNIFORM IN COLOR, SPECIFICALLY MANUFACTURED FOR USE IN FABRICATION OF LAMINATED GLASS SHEETS, ULTRAVIOLET STABILIZED, UNIFORM THICKNESS AS SPECIFIED.
3) TRANSLUCENT LAMINATING FILM: TRANSLUCENT WHITE 216500, MINIMUM 0.015 INCH THICKNESS.COMBINE WITH CLEAR FILMS AS NECESSARY TO ACHIEVE FULL THICKNESS.
4. LOW E COATING: COATING SHALL BE APPLIED BY USING MAGNETIC ENHANCED SPUTTERED VACUUM DEPOSITION TECHNOLOGY; PPG INDUSTRIES, PITTSBURGH, PA "SOLARBAN 60"; IRACON, OWATONNA MN "VE 1_2M;" OR APPROVED.
5. SPANDREL COATING: CERAMIC FRIT OPACIFIER; COLOR AS INDICATED IN THE DRAWINGS

F. PREPARATION:
1. CLEAN CONTACT SURFACES AND WIPE DRY.
2. SEAL FRAME CORNER JOINTS, AND OTHER LEAKAGE POINTS WITH SEALANT. AT INSULATING GLASS UNITS THE SEALANT SHALL BE COMPATIBLE WITH THE SEAL OF THE UNIT. DO NOT PLUG WEEP HOLES.
3. PRIME SURFACES SCHEDULED TO RECEIVE SEALANT, UNLESS OTHERWISE RECOMMENDED BY THE SEALANT MANUFACTURER.

G. INSTALLATION:
1. UNLESS SPECIFIED OTHERWISE, GLAZE IN ACCORDANCE WITH THE CURRENT EDITION OF GLASS ASSOCIATION OF NORTH AMERICA (GANA); GLAZING MANUAL.
2. SETTING BLOCKS: PLACE SETTING BLOCKS IN FRAMES FOR SUPPORT OF GLASS. PLACE AT QUARTER POINTS UNLESS APPROVED OTHERWISE.
3. SET GLASS TIGHTLY IN POSITION WITH PROPER CLEARANCES IN ACCORDANCE WITH THE REFERENCED STANDARD.
4. STOREFRONT GLAZING: UNLESS SPECIFIED OTHERWISE, GLAZE UNITS WITH GASKETS FURNISHED WITH THE FRAMING SYSTEMS SPECIFIED IN OTHER SECTIONS.
5. GLAZING FOR INTERIOR NON-RATED DOORS AND WINDOWS, WHERE GASKETS ARE NOT FURNISHED:
a. GLAZE WITH GLAZING TAPE.
b. PRE-MEASURE AND CUT TAPES TO REQUIRED LENGTHS; ADHERE TO FIXED STOPS, SETTING HORIZONTAL TAPE AT HEADS AND SILLS BEFORE VERTICAL TAPE.
c. INSTALL TAPE WITH TIGHT BUTT JOINTS; NO OVERLAPS WILL BE ACCEPTED. SET TAPE WITH STRAIGHT LINES LEVEL WITH FRAME SIGHT LINE.
d. POSITION GLASS, UNIFORMLY SEALING AGAINST TAPE. INSTALL INSIDE REMOVABLE STOPS AND PLACE TAPE IN STOPS FORMING A UNIFORM SEAL AGAINST GLASS, LEVEL WITH SIGHT LINES.
6. GLAZING FOR FIRE RATED DOORS AND WINDOWS: GLAZE IN ACCORDANCE WITH NFPA 80, UNLESS REQUIRED OTHERWISE BY THE LABELING REQUIREMENT OF THE FRAME.
7. CANOPY GLAZING:
a. UNLESS SPECIFIED OTHERWISE, GLAZE UNITS WITH GASKETS FURNISHED WITH THE FRAMING SYSTEMS SPECIFIED IN OTHER SECTIONS.
b. STRUCTURAL GLAZING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL GLAZING SEALANT MANUFACTURER'S WRITTEN RECOMMENDATIONS. MAINTAIN STRICT ENVIRONMENTAL CONTROLS DURING FIELD INSTALLATION.
8. ADJUST GLAZING MATERIALS TO FORM A UNIFORM SIGHT LINE.

H. SCHEDULE:

1. GL-1: CLEAR 1/4 INCH THICK GLASS; TEMPERED.
2. GL-2: CLEAR 1/2 INCH THICK GLASS; TEMPERED.
3. GL-3:
a. INSULATING GLASS UNIT WITH 1/2 INCH AIR SPACE BETWEEN TWO PANES OF GLASS AS FOLLOWS:
1) EXTERIOR PANE: 1/4 INCH CLEAR GLASS WITH HIGH PERFORMANCE LOW E COATING ON #2 SURFACE TEMPERED.
2) INTERIOR PANE: 1/4 INCH CLEAR GLASS; TEMPERED.
3) 1/2 INCH SPACER TO HAVE BLACK FINISH
b. PERFORMANCE AS FOLLOWS:
1) WINTER U VALUE: .29
2) SHADING COEFFICIENT: .43
3) VISIBLE LIGHT TRANSMITTANCE: 68-70%
4. GL-4: GL-1 OR GL-2 WITH CUSTOM COLOR SPANDREL COATING ON #2 SURFACE.
5. GL-5: NOMINAL 9/16 INCH LAMINATED GLASS WITH VANCEVA 0009 ARCTIC SNOW INTERLAYER.

I. PROVIDE TEMPERED GLASS IN HAZARDOUS LOCATIONS TO MEET THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.

DIVISION 9 - FINISHES

092200 LIGHTGAGE

METAL SUPPORT FRAMING

A. SUMMARY:
1. LIGHTGAGE METAL SUPPORT FRAMING FOR INTERIOR FINISHES.
2. INTERIOR RECESSED STANDARDS.

B. SYSTEM DESCRIPTION:
1. STRUCTURAL DESIGN:
A. SELECT FRAMING SYSTEMS, GAGES, SUPPORTS, BRACING, AND CONNECTIONS AS NECESSARY TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
B. PARTITION FRAMING SHALL CONFORM TO THE WIDTHS INDICATED, UNLESS APPROVED OTHERWISE. PROVIDE THICKER GAGES AND INCREASED STUD SPACING AS NECESSARY TO MEET THE DESIGN REQUIREMENTS.
2. DESIGN LOADS:
A. INTERIOR CEILING ASSEMBLIES: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD, PLUS DEAD LOADS.
B. INTERIOR PARTITIONS: 5 POUNDS PER SQUARE FOOT UNIFORM LIVE LATERAL LOAD.
C. SEISMIC LOADS: CONFORM TO THE REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
3. DEFLECTION REQUIREMENTS: MAXIMUM OF 1/240 THE SPAN.

C. CODE REQUIREMENTS:
1. PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED AND SPECIFIED. ASSEMBLIES SHALL BEEN TESTED IN ACCORDANCE WITH ASTM E119, AND SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES. COORDINATE INSTALLATION OF OTHER MATERIALS WHICH ARE A PART EACH ASSEMBLY.
2. FIRE RATING REQUIREMENTS TAKE PRECEDENCE OVER THE CONSTRUCTION REQUIREMENTS INDICATED. IN THE VENT OF CONFLICT, NOTIFY THE ARCHITECT, AND DO NOT BEGIN CONSTRUCTION IN THE AREA OF CONFLICT UNTIL THE CONFLICT HAS BEEN RESOLVED.
3. PROVIDE ALL CALCULATIONS, DRAWINGS, PRODUCT DATA, AND OTHER VERIFICATION AS REQUIRED BY THE JURISDICTIONAL CODE AUTHORITY TO OBTAIN APPROVAL OF THE LIGHTGAGE METAL FRAMING INSTALLATION.

D. MATERIALS:
1. LIGHT GAGE METAL FRAMING: ASTM C645; GALVANIZED; PROVIDE "C" SHAPED STUDS, U SHAPED RUNNERS, HAT AND "Z" SHAPED FURRING CHANNELS, AND OTHER SIZES AND SHAPES AS INDICATED ON THE DRAWINGS, AND REQUIRED IN THE STANDARDS REFERENCED. MINIMUM 25 GAGE, EXCEPT PROVIDE THICKER GAGES AS REQUIRED TO MEET DEFLECTION REQUIREMENTS.
2. COLD ROLLED CHANNELS: RUST INHIBITIVE PAINT COATING; SIZES IN ACCORDANCE WITH ASTM C754.
3. SCREWS: SELF TAPPING; LOW PROFILE HEAD.
4. PROPRIETARY CEILING SUSPENSION SYSTEM:
A. MANUFACTURER:
1) AS SPECIFIED: CHICAGO METALLIC (LOS ANGELES CA; 800-323-7164).
2) ACCEPTABLE SUBSTITUTIONS:
A) USG INTERIORS, INC. (CHICAGO IL; 950-3839).
B) ARMSTRONG (800-207-2321).

DIVISION 9 - FINISHES - cont.

B. SUSPENSION SYSTEM: SIMILAR TO SYSTEM 650, OR 670; ASTM C635 HEAVY DUTY CLASSIFICATION.
1) FURRING RUNNERS: MANUFACTURED FROM 0.020 INCH THICK STEEL 1_3/8 INCH WIDE WITH KNURLED FACE BY 1_1/2 INCHES HIGH; FACTORY PUNCHED CROSS TEE SLOTS, HANGER HOLES, AND NON-DIRECTIONAL BAYONET END TAB COUPLINGS.
2) FURRING TEES: MANUFACTURED FROM 0.020 INCH THICK L-3/8 INCH WIDE WITH KNURLED FACE BY 1_½ INCHES HIGH; FACTORY PUNCHED CROSS TEE SLOTS AND HANGER HOLES.
3) FURRING CROSS CHANNEL: 0.020 INCH THICK STEEL; 1_3/8 INCH WIDE WITH KNURLED FACE BY ⅞ INCHES HIGH BY 48 INCHES LONG WITH STRAIGHT LOCKING END TABS.
4) CROSS TEES: 0.020 INCH THICK STEEL 15/16 INCH WIDE BY 1-1/2 INCHES HIGH; WITH STAKED-ON DIP END TAB COUPLINGS, FACTORY PUNCHED CROSS TEE SLOTS.
5) MOLDINGS: MANUFACTURER'S STANDARD.
5. FIRE RATED TRACK: AS SPECIFIED IN SECTION 078500.
6. PARTITION HEAD COMPENSATING CHANNEL: DESIGN FOR MINIMUM +/- 1/2 INCH DEFLECTION. PROFILES AS INDICATED; ONE OF THE FOLLOWING.
A. 20 GAGE DEEP LEG TRACK; 2 INCH LEGS.
B. SLIP TRACK SYSTEMS INC. (ANAHEIM CA; 714-761-1921) "SLP-TRK."
7. RECESSED STANDARDS AND BRACKETS:
A. MINIMUM 25 GAGE GALVANIZED STEEL STANDARD/ADAPTORS FOR INSTALLATION IN COMBINATION WITH TYPICAL STEEL STUDS; 1-INCH SLOTS SPACED FOR 2 INCH VERTICAL ADJUSTMENT; BLACK FINISH FOR EXPOSED VERTICALS.
B. STANDARD/ADAPTORS: GARCY CORPORATION "ADAPT-A-STUD NO. 1210, TYPE A" CAPITOL HARDWARE MANUFACTURING COMPANY, INC. "ALUMINUM CAPITOL STUD ADAPTORS #2080," OR APPROVED.
C. BRACKETS: TO FIT THE SHELF CONFIGURATIONS INDICATED.
D. STANDARD LENGTH: FULL HEIGHT OF EXPOSED PORTION OF FINISH WALL, LESS 1'-0".]
8. OTHER FRAMING MATERIALS: FURNISH IN ACCORDANCE WITH ASTM C754.

E. PARTITION FRAMING:
1. RUNNERS:
A. SECURE RUNNERS WITH FASTENERS AT MAXIMUM 24 INCHES OC.
B. AT CONCRETE FLOORS, USE POWDER DRIVEN FASTENERS OR DRILLED IN CONCRETE ANCHORS.
C. WHERE INDICATED, ATTACH TOP TRACK TO ACOUSTICAL CEILING GRID WITH TWO STAGGERED #12-14 SCREWS AT 24 INCHES ON CENTER. PROVIDE SPACER STRIP BETWEEN RUNNER AND CEILING SUSPENSION SYSTEM TO ALLOW TEGULAR OR REVEAL EDGE ACOUSTICAL PANELS TO CLEAR PARTITION. USE MINIMUM 20 GAGE TOP TRACK.
D. TOP RUNNER: USE PROPRIETARY COMPENSATING CHANNEL OR DEEP LEG TRACK AT CONTRACTOR'S OPTION, AS NECESSARY TO ACCOMMODATE BUILDING DEFLECTION.
E. UNLESS APPROVED OTHERWISE, AT FIRE RATED PARTITION ASSEMBLIES, USE FIRE RATED TRACKS, FURNISHED FROM SECTION 078500. INSTALL FIRE RATED TRACKS IN ACCORDANCE WITH THE FIRE RATED ASSEMBLY REQUIREMENTS.
F. ALIGN TO TOLERANCES SPECIFIED.
2. UNLESS INDICATED OTHERWISE, INSTALL STUDS VERTICALLY AT 16 INCHES OC, AND NOT MORE THAN 2 INCHES FROM ABUTTING CONSTRUCTION, AT EACH SIDE OF OPENINGS, AND AT CORNERS.
3. FIT RUNNERS UNDER AND ABOVE OPENINGS; SECURE INTERMEDIATE STUDS AT SPACING OF WALL STUDS.
4. BRACE PARTITION FRAMING SYSTEM AND MAKE RIGID. PROVIDE DIAGONAL STUD BRACING AT MAXIMUM 8 FT ON CENTER AT ALL FRAMING WHICH DOES NOT EXTEND TO STRUCTURE.
5. INSTALL DOUBLE STUDS CONTINUOUS FROM FLOOR TO CEILING TRACK AT THE JAMB OF EACH DOOR FRAME AND CASED OPENING. STUDS SHALL BE THE SAME GAGE AS THE ADJACENT STUDS, BUT NO LESS THAN 20 GAGE. PROVIDE DIAGONAL STEEL STUD BRACING TO STRUCTURE AT EACH JAMB AT PARTITIONS WHICH DO NOT EXTENT TO STRUCTURE.
6. COORDINATE ERECTION OF STUDS WITH INSTALLATION OF SERVICE UTILITIES. ALIGN STUD WEB OPENINGS.
7. COORDINATE ERECTION OF STUD SYSTEM WITH REQUIREMENTS OF DOOR AND WINDOW FRAMES, FIRE EXTINGUISHER CABINETS, RECESSED TOILET ACCESSORIES, ACCESS DOORS, AND OTHER CONSTRUCTION WITHIN MOUNTED PARTITION CONSTRUCTION.
8. COORDINATE THE INSTALLATION OF FRAMING WITH THE GYPSUM BOARD INSTALLER TO ENSURE SUPPORT AT ALL BOARD EDGES. PROVIDE FRAMING IMMEDIATELY EITHER SIDE OF E XPANSION JOINTS.
9. STUD SPLICING NOT PERMISSIBLE.
10. AT NON-LOAD BEARING FULL HEIGHT PARTITIONS SUBJECT TO COMPRESSION CAUSED BY OVERHEAD STRUCTURAL DEFLECTION, CUT STUDS 1/2 INCH SHORT FROM FULL HEIGHT. DO NOT RIGIDLY CONNECT STUD TO TOP RUNNER.

11. STUD BRIDGING:
A. AT INTERIOR PARTITIONS GREATER THAN 4 FEET IN LENGTH, AND WITH RIGID FACING MATERIAL ON ONE STUD FLANGE ONLY, PROVIDE 3/4" BRIDGING CHANNELS IN HORIZONTAL ROWS AT A MAXIMUM OF 5'-0" ON CENTER FOR THE FULL HEIGHT OF THE PARTITION.
B. INTERIOR FULL HEIGHT PARTITIONS (STUDS EXTENDING FROM THE FLOOR TO THE STRUCTURE ABOVE) WITH RIGID FACING MATERIAL STOPPING 3'-0" OR MORE BELOW TOP OF STUDS - PROVIDE ONE ROW 3/4" BRIDGING CHANNEL HORIZONTALLY AT TERMINATION OF GYPSUM BOARD MATERIAL, AND ONE ADDITIONAL ROW FOR EACH 5'-0" OF EXPOSED STUDS.
C. INSTALL STUD BRIDGING CHANNELS IN LONG LENGTHS, WIRE TYING AND LAPPING THE JOINTS A MINIMUM OF 12." ATTACH BRIDGING CHANNEL TO EACH STUD AS SHOWN IN MANUFACTURER'S PRINTED INSTRUCTIONS.
12. CONCEALED SHELF STANDARDS:
A. INSTALL SO SHELF BRACKET SLOTS ARE ALIGNED LEVEL WITHIN A TOLERANCE OF 1/16 INCH. SET FOR BOTTOM BRACKET INSTALLATION 1'-0" ABOVE FLOOR SLAB, UNLESS INDICATED OTHERWISE.
B. INSTALL NESTED BETWEEN STUDS; EXTEND FULL HEIGHT OF EXPOSED PORTION OF PARTITION; ANCHOR SECURELY IN POSITION.

F. CEILING AND SOFFIT FRAMING:
1. COORDINATE LOCATIONS OF HANGERS AND SUPPORTS WITH THE WORK OF OTHER SECTIONS.
2. PROVIDE CEILING AND SOFFIT FRAMING AS INDICATED. WHERE NOT INDICATED PROVIDE, STUD AND RUNNER FRAMING, SUSPENDED FRAMING, OR PROPRIETARY SUSPENDED FRAMING.
3. PROPRIETARY SUSPENDED FRAMING: INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. STUD AND RUNNER FRAMING:
A. SECURE RUNNERS TO STRUCTURE ABOVE WITH FASTENERS AT A MAXIMUM OF 24 INCHES ON CENTER. SIZE FASTENERS AND USE REINFORCEMENTS AS NECESSARY TO SUPPORT THE DEAD LOADS APPLIED.
B. SCREW FASTEN FRAMING AT EACH FLANGE JOINT.
C. SPACE STUDS AT 16 INCHES ON CENTER AT HORIZONTAL LOCATIONS.
D. SELECT MEMBERS TO MEET THE STRUCTURAL REQUIREMENTS SPECIFIED.
5. LIGHTGAGE SUSPENDED FRAMING:
A. INSTALL IN ACCORDANCE WITH ASTM C754, UNLESS INDICATED OR SPECIFIED OTHERWISE.
B. SUSPEND CEILING FROM OVERHEAD STRUCTURAL ELEMENTS ONLY. DO NOT SUPPORT FROM ANY ELECTRICAL, HVAC, PLUMBING, OR SPRINKLER SYSTEM COMPONENTS.
C. SPACE CARRYING CHANNELS 4 FEET ON CENTER WITH SPLICES LAPPED 12 INCHES AND TIED.
D. SUPPORT COLD ROLLED CARRYING CHANNELS WITH HANGER WIRES SPACED AT 3 FEET ON CENTER FOR LATH AND PLASTER CEILINGS AND 4 FEET ON CENTER FOR GYPSUM BOARD CEILINGS. LOOP HANGER WIRE AROUND SUPPORT ELEMENT AND TIGHTLY WRAP AROUND VERTICAL WIRE 3 TIMES; CUT OFF NEATLY.
E. SPACE FURRING CHANNELS 16" O.C. WITH SPLICES LAPPED 12", MINIMUM AND TIED; CLIP OR SADDLE TIE TO RUNNER CHANNELS WITH 16-GAGE TIE WIRE.
F. WHERE OVERHEAD OBSTRUCTIONS PREVENT THE REGULAR SPACING OF HANGERS, PROVIDE SECONDARY CARRYING MEMBERS FOR INDIRECT SUPPORT OF THE SUSPENSION SYSTEM, OR REINFORCE THE NEAREST ADJACENT HANGERS AND RELATED FRAMING COMPONENTS AS REQUIRED TO SPAN THE REQUIRED DISTANCE.
6. STABILIZE SUSPENDED CEILING, SOFFIT, AND FASCIA FRAMING AGAINST LATERAL MOVEMENT BY MEANS OF DIAGONAL BRACING. AT LOCATIONS WHERE PARTITIONS EXTEND TO CEILING, ONLY, INSTALL SUPPLEMENTARY BRACING AT MAXIMUM 8'_0" O.C. ALONG LENGTH OF PARTITION, AND ABOVE EACH DOOR HINGE AND STRIKE JAMB.
7. FORM OPENINGS IN CEILINGS AND FRAME OPENINGS FOR RECESSED LIGHT FIXTURES, AIR DIFFUSERS, ACCESS DOORS, HATCHES, ETC.
8. INSTALL SUPPLEMENTARY HANGER WIRES FOR SUPPORT OF CEILING MOUNTED EQUIPMENT.

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G. BACKING:
1. PROVIDE STEEL BACKING, UNLESS INDICATED OTHERWISE, FOR THE SUPPORT OF ALL WALL MOUNTED ITEMS.
2. UNLESS INDICATED OTHERWISE, STEEL BACKING SHALL CONSIST OF MINIMUM 4 INCH WIDE 16 GAGE STEEL PLATE SCREWED RIGIDLY TO THE STUDS. PROVIDE 12 GAGE BACKING PLATES AT HANDRAILS.

H. INSTALLATION TOLERANCES:
1. INSTALL MEMBERS TO PROVIDE SURFACE PLANE WITH MAXIMUM VARIATION OF 1/8 INCH IN 10 FEET IN ANY DIRECTION.
2. LOCATE ASSEMBLIES WITHIN 1/4 INCH OF REQUIRED LOCATIONS.

092536 VENEER PLASTER

A. SUMMARY: VENEER PLASTER FINISH OVER GYPSUM BOARD BASE.

B. QUALITY ASSURANCE:
1. APPLICATORS: APPROVED BY THE DISTRIBUTOR OF THE VENEER PLASTER MATERIALS, UNLESS APPROVED OTHERWISE. CONTACT THE PLASTER MATERIALS DISTRIBUTOR TO OBTAIN THE LIST OF APPROVED APPLICATORS.
2. MOCK-UP:
A. PROVIDE A MINIMUM 4 X 8 MOCK-UP OF VENEER PLASTER. APPLY MOCK-UP TO A SECTION OF GYPSUM BOARD AS APPROVED BY THE OWNER OR THE ARCHITECT.
B. PRIOR TO MOCK-UP, OBTAIN A SAMPLE OF THE APPROVED FINISH FROM THE VENEER P LASTER MATERIALS SUPPLIER. MOCK-UP WILL BE USED TO EVALUATE THE APPLICATOR'S ABILITY TO MATCH THE APPROVED SAMPLE.
C. APPROVED MOCK-UP MAY NOT BE USED IN THE WORK.

C. ENVIRONMENTAL CONDITIONS: AMBIENT AIR TEMPERATURE SHALL BE NO LESS THAN 55 DEGREES F. (NOT TO EXCEED 95 DEGREES F.) AT TIME OF INSTALLATION AND REMAIN THE SAME FOR AT LEAST 24 HOURS AFTER INSTALLATION.

D. MAINTENANCE: FURNISH THE FOLLOWING IN 1 QUART CONTAINERS FOR MAINTENANCE:
1. GENERAL CLEANING: SURE KLEAN LIGHT DUTY CONCRETE CLEANER BY PROSOCO, INC.1-800-491-0721.
2. MARK REMOVAL: "GOOF OFF" BY VALSPAR CORP.1-800-345-4530.

E. MATERIALS:
1. PLASTER MATERIALS: "TRADITERRA" AND "TRADITERRA SF" MATERIALS, AS AVAILABLE FROM TERRABRIOSA ARTISAN PLASTER, NAPA< CA (707-252-7781, EXT 13). COLOR AS INDICATED ON THE DRAWINGS.
2. SEALER: MIRACLE CO., (626-443-6433); "ACRYLIC SEALER 505."

F. PLASTER INSTALLATION:
1. APPLY SPECIAL PLASTER FINISH IN COMPLIANCE WITH INSTRUCTIONS AVAILABLE FROM THE DISTRIBUTOR.
2. APPLY SPECIAL PLASTER FINISH AS NECESSARY TO MATCH THE APPROVED MOCK-UP.
3. PROVIDE A UNIFORM FINISH INCLUDING TEXTURE, COLOR AND PATTERN THROUGHOUT THE INSTALLATION.
4. CORNERS AND EDGES: PROVIDE SHARP CORNERS AND EDGES WITH NO BUILD UP OF SURFACE MATERIAL.

G. SEALER APPLICATION: APPLY WITH TIGHT MOHAIR NAP "SLIM JIM" ROLLER, AVAILABLE THROUGH, ARDLIME PLASTERS, INC. (707-468-4320).

092400 PORTLAND CEMENT PLASTER

A. SUMMARY:
1. PORTLAND CEMENT PLSTER WITH 'TRADITERRA' PLASTER FINISH
2. BUILDING PAPER UNDERLAYMENT.
3. METAL LATH AND PLASTER ACCESSORIES.
4. FOAM TRIM SHAPES.

B. REFERENCES:
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM): LATEST PUBLISHED VERSION, UNLESS OTHERWISEINDICATED:
A. C144 - AGGREGATE FOR MASONRY MORTAR.
B. C150 - PORTLAND CEMENT.
C. C206 - FINISHING HYDRATED LIME.
D. C207 - HYDRATED LIME FOR MASONRY PURPOSES.
E. C260 - AIR ENTRAINING ADMIXTURES FOR CONCRETE.
F. C847 - STANDARD SPECIFICATIONS FOR METAL LATH.
G. C897 - SPECIFICATION FOR AGGREGATE FOR JOB MIXED PORTLAND CEMENT-BASED PLASTERS.
H. C926 - APPLICATION OF PORTLAND CEMENT-BASED PLASTER.
I. C1063 - LATHING AND FURRING FOR PORTLAND CEMENT AND PORTLAND CEMENT LIME PLASTERING, EXTERIOR (STUCCO) AND INTERIOR.

C. DEFINITIONS:
1. PLASTIC CEMENT: PROPRIETARY PREMIXED PLASTER COMPOUND, CONTAINING PORTLAND CEMENT PLASTER, LIME, AND OTHER ADDITIVES.

D. SUBMITTALS:
1. PRODUCT DATA: SUBMIT FOR EACH PLASTER TRIM ACCESSORY, ADMIXTURE, FIBER REINFORCING, AND BONDING AGENT PROPOSED FOR THE WORK.
2. FINISH SAMPLES: SUBMIT ONE 24" X 24" CURED CEMENT PLASTER SAMPLE OF EACH TEXTURE ON 3/4" PLYWOOD SUBSTRATE FOR APPROVAL OF FINISH TEXTURE ONLY.
3. QUALITY CONTROL SUBMITTALS:
A. MIX DESIGN: SUBMIT MIX DESIGNS FOR BASE AND FINISH COATS.

E. QUALITY ASSURANCE:
1. BUILDING CODES: MATERIALS, SYSTEMS, AND INSTALLATION SHALL MEET REQUIREMENTS OF THE JURISDICTIONAL CODE AUTHORITIES.
2. APPROVED INSTALLER: TERRABRIOSA ARTISAN PLASTER, NAPA< CA (707-252-7781, EXT 13).

F. ENVIRONMENTAL CONDITIONS:
1. DO NOT APPLY CEMENT PLASTER UNLESS MINIMUM AMBIENT TEMPERATURE OF 40 DEGREES F IS MAINTAINED CONTINUOUSLY IN THE AREA TO BE PLASTERED; MAINTAIN TEMPERATURE 48 HOURS PRIOR TO APPLICATION OF PLASTER, WHILE THE PLASTERING IS BEING APPLIED, AND DURING THE CURING OPERATION.
2. DO NOT APPLY PLASTER TO ANY FROZEN SURFACES OR SURFACES CONTAINING FROST; PROTECT PLASTER COATS AGAINST FREEZING FOR A PERIOD OF 24 HOURS AFTER APPLICATION.

G. PLASTER AND ASSOCIATED MATERIALS:
1. CEMENT:
A. PORTLAND CEMENT: ASTM C150, TYPE; GRAY COLOR.
B. PLASTIC CEMENT: ASTM C926.
C. MASONRY CEMENT: ASTM C91.
2. SAND: NATURAL TYPE, CONFORMING TO REQUIREMENTS OF ASTM C144 OR C897, GRADATION AND USE RECOMMENDED FOR PORTLAND CEMENT BASECOAT AND FINISH COAT PLASTERING.
3. AIR ENTRAINMENT ADMIXTURE: ASTM C260, FREE OF CALCIUM CHLORIDE AND THIOCYANATES, NOT MORE THAN 0.05 PERCENT CHLORIDE IONS.
4. WATER: CLEAN, POTABLE FRESH AND FREE FROM AMOUNTS OF MATTER DELETERIOUS TO QUALITY OF CEMENT PLASTER MATERIALS.
5. HYDRATED LIME: ASTM C206 OR C207, TYPE S.
6. FIBER REINFORCING: ONE OF THE FOLLOWING.
A. FIBERMESH COMPANY "FIBERMIX 25"; 1/4 INCH LONG MONOFILAMENT POLYPROPYLENE FIBERS.
B. HILL BROTHERS CHEMICAL CO. "HI-FIBE P-1510"; 1/2 INCH LONG MONOFILAMENT POLYPROPYLENE FIBERS.
7. PUMPING ADDITIVES: MANUFACTURED ADDITIVES AS REQUIRED FOR IMPROVING PUMPABILITY OF THE MIX.

DIVISION 9 - FINISHES - cont.

H. LATH AND UNDERLAYMENT:
1. METAL LATH: EXPANDED TYPE, 3.4 LBS/S.Y. WEIGHT; ASTM C847; SELF-FURRING TYPE, GALVANIZED,EXCEPT PAINTED MAY BE USED AT INTERIOR APPLICATIONS.
2. BUILDING PAPER:
A. BASE LAYER: DUPONT COMPANY (800-448-9835) "COMMERCIAL WRAP;" INCLUDE MANUFACTURER'S STANDARD TAPE FOR SEALING JOINTS AND PENETRATIONS.
B. OUTER LAYER: DUPONT COMPANY "TYVEK STUCCOWRAP."
3. FLEXIBLE FLASHING:
A. DUPONT COMPANY "TYVEK FLEXWRAP."
B. W.R. GRACE "VYCOR PLUS,"
C. MONSEY BAKOR "BLUESKIN;" 40 MIL THICKNESS.

I. ACCESSORIES:
1. FURNISH ATTACHMENT DEVICES AS REQUIRED FOR SECURE ANCHORING OF PLASTER ACCESSORIES; FURNISHCONNECTION DEVICES AND SPLICE PLATES FOR REVEALS AND PLASTIC EXPANSION JOINTS, TO ENSURE ACCURATE ALIGNMENT, ALLOWANCE FOR AXIAL MOVEMENT, WHERE REQUIRED.
2. CORNER BEADS: STOCKTON WIRE PRODUCTS (213/245-5193) "PLASTIC NOSE CORNERBEAD" OR APPROVED; 2_1/2" WOVEN WIRE FLANGES; PLASTIC COATED NOSE WIRE.
3. CASING BEADS: "NO. 66 CASING BEAD" BY DIETRICH (412-281-2810), X-66 BY AMICO, OR APPROVED;ZINC ALLOY; 7/8"; LENGTHS AS REQUIRED FOR MINIMUM NUMBER OF JOINTS IN EACH UNINTERRUPTED RUN.
4. CONTROL JOINTS: "SSP SUPERIOR SINGLE POINT SCREED (17) SEPARATION TYPE" BY SUPERIOR METAL TRIM (800-892-8673), OR APPROVED; SOLID ZINC ALLOY; LENGTHS AS REQUIRED FOR MINIMUM NUMBER OF JOINTS IN EACH UNINTERRUPTED RUN.
5. REVEALS: FRY REGLET CO, PITTCON INDUSTRIES, INC., GORDON INC, OR APPROVED; ALUMINUM EXTRUSIONS; SHAPES AS INDICATED; TWO PIECE CONTROL JOINT SCREED SIMILAR TO FRY REGLET PCS-75 SERIES; PROVIDE FACTORY FABRICATED INTERSECTIONS; MANUFACTURER'S STANDARD PRIME PAINT FINISH.
6. SOFFIT DRIP SCREED: FRY REGLET CORPORATION (818/289-4744)"DS-875-875 DRIP SCREED"; MANUFACTURER'S STANDARD PRIME PAINT FINISH.
7. ANCHORAGES FOR LATH AND ACCESSORIES:
A. MINIMUM 3/8 INCH HEAD DIAMETER; MINIMUM LENGTH OF 3/4 INCH.
B. SCREWS: GALVANIZED OR COPOLYMER COATED STEEL SELF TAPPING WAFER HEAD SCREWS.
8. FOAM SHAPES:
A. MATERIALS:
1) EXPANDED POLYSTYRENE BOARD, PROPERLY AGED, MINIMUM 6 WEEKS; COMPLYING WITH ASTM C578 TYPE 1; AVERAGE DENSITY LBS/CU FT.; CODE APPROVED QUALITY CONTROL AND LABELING.
2) REINFORCING MESH: MANUFACTURER'S STANDARD ALKALINE RESISTANT OPEN WEAVE GLASS FIBERMESH; STANDARD DUTY.
3) BASE COAT: MANUFACTURER'S STANDARD POLYMER MODIFIED CEMENTITOUS BASE COAT.
B. PROVIDE FACTORY FABRICATED HOT WIRE CUT OR MOLDED SECTIONS AT SPECIAL TRIM CONFIGURATIONS.
C. PROVIDE FOAM SHAPES WRAPPED WITH FACTORY OR SHOP APPLIED REINFORCING MESH AND ADHESIVE BASE COAT OVER. HOLD BACK BASE COAT AT ENDS TO RECEIVE MESH TAPE AT END TO END JOINTS DURING FIELD INSTALLATION.

J. CEMENT PLASTER MIXES:
1. PROPORTIONS (BY VOLUME):
A. SCRATCH COAT: 1 PART PORTLAND CEMENT, 4 TO 5 PARTS SAND, 1/2 TO 3/4 PART LIME, AND 1 LB OF POLYPROPYLENE STRANDS FOR EACH 1000 LBS OF MIX (DRY); OR 1 PART PLASTIC CEMENT, 3 TO 4 PARTS SAND, AND 1 LB OF POLYPROPYLENE STRANDS FOR EACH 1000 LBS OF MIX (DRY).
B. BROWN COAT: 1 PART PORTLAND CEMENT, 4 TO 5 PARTS SAND, 1/2 TO 3/4 PART LIME, AND 1 LB OF POLYPROPYLENE STRANDS FOR EACH 1000 LBS OF MIX (DRY); OR 1 PART PLASTIC CEMENT, 3 TO 4 PARTS SAND, AND 1 LB OF POLYPROPYLENE STRANDS FOR EACH 1000 LBS OF MIX (DRY).
C. FINISH COAT: "TRADITERRA SF" MATERIALS, AS AVAILABLE FROM TERRABRIOSA ARTISAN PLASTER, NAPA< CA (707-252-7781, EXT 13). COLOR AS INDICATED ON THE DRAWINGS.
2. MIXING:
A. UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ARCHITECT, PROVIDE MECHANICAL MIXING OF PLASTER IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C926. KEEP WATER TO A MINIMUM, USING ONLY THE AMOUNT NECESSARY TO MAINTAIN CONSISTENCY.
B. ADD AIR ENTRAINMENT ADMIXTURES TO PROVIDE 2 TO 4 PERCENT ENTRAINMENT IN ALL COATS.
C. INCORPORATE PUMPING ADDITIVES AS REQUIRED IN THE APPROVED MIX DESIGN.

K. INSTALLATION OF LATH, UNDERLAYMENT, AND ACCESSORIES:
1. INSTALL SPECIFIED PRODUCTS AND SYSTEMS IN ACCORDANCE WITH REFERENCED STANDARDS AND SPECIFICATIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE.
2. BUILDING PAPER (DOUBLE LAYER):
A. APPLY TWO PLIES OF BUILDING PAPER OVER SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS; BOTH LAYERS LAPPED TO WEATHER.
B. APPLY BASE LAYER COMPLETE TO FORM A CONTINUOUS AIR BARRIER. TAPE ALL JOINTS AND PENETRATIONS WITH MANUFACTURER'S RECOMMENDED TAPE.
C. COORDINATE INSTALLATION OF WINDOWS AND OTHER WALL PENETRATIONS WITH THE INSTALLATION OF FLEXIBLE FLASHING AND BUILDING PAPER AS SHOWN.
D. APPLY OUTER LAYER.
E. INSTALL BUILDING PAPER LAYERS WITH CORROSION RESISTANT SCREWS WITH WASHERS. DO NOT USE STAPLES.
3. ACCESSORIES:
A. FASTEN ACCESSORIES THROUGH SHEATHING TO METAL STUDS; AT CMU PREDRILL AND FASTEN ACCESSORIES WITH THREADING FASTENERS.
B. INSTALL ACCESSORIES AS INDICATED IN COMBINATION WITH CEMENT PLASTER WORK.
C. FIELD CUT ACCESSORIES AS NECESSARY FOR ACCURATE ALIGNMENT AND CONFORMANCE TO DETAILS; MAKE ALL CUTS NEAT AND STRAIGHT; REMOVE BURRS BEFORE INSTALLATION.
D. INSTALL ACCESSORIES IN

DIV. 9 - FINISHES - CONT.

L. INSTALLATION OF LATH:
1. ATTACH METAL LATH IN ACCORDANCE WITH ASTM C1063 UNLESS SPECIFIED OTHERWISE.
2. METAL STUD AND SHEATHING SUBSTRATE: FASTEN LATH THROUGH SHEATHING TO STEEL STUDS AND FURRING MEMBERS WITH GALVANIZED WAFER HEAD SCREWS. SCREWS SHALL PASS THROUGH THE SHEATHING AND PENETRATE METAL FRAMING A MINIMUM OF 3/8 INCHES. SPACE FASTENERS A MAXIMUM OF 24 INCHES O.C.HORIZONTALLY, AND 6 INCHES O.C. VERTICALLY.
3. CONCRETE MASONRY SUBSTRATE: ATTACH TO CONCRETE MASONRY UNITS WITH GALVANIZED ROOFING NAILS. FASTEN TO THE SURFACES WITH APPROVED GALVANIZED FASTENERS AT 24 INCHES ON CENTER HORIZONTALLY AND A MAXIMUM OF 8 INCHES ON CENTER VERTICALLY. USE SELF FURRING LATH.
4. CONCRETE SUBSTRATE: FASTEN WITH GALVANIZED POWDER DRIVEN FASTENERS AT 12 INCHES ON CENTER VERTICALLY AND HORIZONTALLY. USE SELF FURRING LATH. THE FASTENERS SHALL BE RATED BY ICBO REPORTS TO RESIST A DOWNWARD SHEAR FORCE OF 96 LBS (12 LB LOAD WITH A SAFETY FACTOR OF 8). SELECT FASTENERS WHICH CONFORM TO THE PERFORMANCE SPECIFIED UNDER EACH INSTALLATION CONDITION, INCLUDING THE COMPRESSIVE STRENGTH OF THE CONCRETE, WHICH MAY BE GREATER THAN THAT INDICATED OR SPECIFIED.

M. INSTALLATION OF BASE COATS:
1. VERIFY THAT ACCESSORIES HAVE BEEN INSTALLED WITHIN TOLERANCE LIMITS SPECIFIED, PRIOR TO APPLICATION OF EACH COAT.
2. STANDARDS: APPLY IN ACCORDANCE WITH ASTM C926 AND AS SPECIFIED HEREIN.
3. THICKNESSES: APPLY BASE COATS TO PERMIT INSTALLATION OF FINISH COAT FOR TOTAL SYSTEM THICKNESSES AS FOLLOWS:
   a. 3 COAT APPLICATION OVER METAL LATH (INCLUDING PLASTER FINISH): 7/8 INCH TOTAL THICKNESS.
4. APPLICATION OVER METAL LATH:
   a. APPLY SCRATCH COAT TO A MINIMUM 3/8 INCH THICKNESS, ALLOW TO PARTIALLY SET, THEN VERY LIGHTLY SCORE IN HORIZONTAL DIRECTION ONLY. CURE FOR A MINIMUM OF 48 OURS.
   b. DAMPEN SCRATCH COAT TO OBTAIN A UNIFORM SUCTION, AND THEN APPLY BROWN COAT TO A MINIMUM 3/8
   c. ROD TO A TRUE PLANE AND TROWEL-FLOAT SURFACE UNIFORMLY. CURE FOR A MINIMUM OF 7 DAYS IN ACCORDANCE WITH ASTM C926. PROTECT SURFACES FROM FLOWING WATER UNTIL HARDENED SUFFICIENTLY.

N. FOAM TRIM SHAPES:

1. APPLY PRIMER RECOMMENDED BY THE MANUFACTURER TO CEMENT PLASTER BASE SURFACES TO RECEIVE FOAM TRIM SHAPES.
2. BOND PRE-WRAPPED TRIM SHAPES TO CEMENT PLASTER BASE WITH ADHESIVE/BASE COAT. ARRANGE FOAM TRIM SHAPES IN ACCURATE ALIGNMENT.
3. PROVIDE MESH REINFORCING TAPE AT END TO END JOINTS AND TROWEL OVER BASE COAT. LEAVE SURFACES READY TO RECEIVE FINISH COAT SPECIFIED BELOW.

O. PLASTER FINISH APPLICATION:
1. DAMPEN BASE COAT PRIOR TO APPLICATION OF FINISH COAT.
2. APPLY FINISH COAT, ACCURATELY SCREEDED TO ACCESSORIES; 1/8 INCH THICKNESS OVER BASE COATS.

P. CLEANING:
1. CLEAN ALL BEADS, SCREEDS, REVEALS, METAL BASE, METAL TRIM, ELECTRICAL OUTLETS, AND OTHER ITEMS IN CONTACT WITH CEMENT PLASTER, LEAVING WORK READY FOR DECORATION BY OTHERS. AS WORK IS COMPLETED IN EACH AREA, REMOVE ALL RUBBISH, UTENSILS, AND SURPLUS MATERIALS, LEAVING SURROUNDING AREAS BROOM CLEAN.
2. REMOVE MASKING FROM ACCESSORIES MASKED TO PREVENT CEMENT PLASTER CLOGGING.

Q. SEALER:
1. AS RECOMMENDED BY THE PLASTER FINISH MANUFACTURER.

R. TOLERANCES:
1. FLAT PLASTER SURFACES SHALL BE STRAIGHT WITHIN 1/8" IN 10 FEET WHEN TESTED WITH A STRAIGHTEDGE IN ANY DIRECTION.
2. ACCESSORIES SHALL BE INSTALLED FREE OF VISIBLE WAVE, STRAIGHT WITHIN 1/16 INCH IN 1 FOOT AND 1/8 INCH IN 10 FEET OF ANY PLANE THROUGH THE AXIS OF THE ACCESSORY, WHEN TESTED WITH A STRAIGHTEDGE; HORIZONTAL ACCESSORIES SHALL BE INSTALLED LEVEL.
3. CURVED SURFACES: TRUE TO THE RADIUS INDICATED WITH NO FLAT SPOTS OR WAVES; RADII SHALL BE UNIFORM AND NOT VARY FROM INDICATED DIMENSIONS BY MORE THAN 1/8" IN 10 FEET.
4. CORNERS AND EDGES: SHARP WITH NO BUILD UP OF SURFACE MATERIAL; STRAIGHT WITHIN 1/16 INCH IN 1 FOOT AND 1/8 INCH IN 10 FEET.
5. ALIGNMENT: JOINTS BETWEEN ACCESSORIES SHALL BE ALIGNED TO WITHIN 1/32 INCH.

092843 GYPSUM SHEATHING

A. MATERIALS:
1. GYPSUM SHEATHING: ONE OF THE FOLLOWING:
   a.G-P GYPSUM CORPORATION "DENS-GLASS GOLD"; GLASS MAT FACED; ASTM C1177; 5/8 INCH THICK.
   b. USG FIBEROCK29#64 BRAND SHEATHING WITH AQUA-TOUGH (TM); 5/8 INCH THICK
2. SCREWS: GALVANIZED; SELF-DRILLING; SELF-DRILLING, BUGLE HEAD SCREWS; MINIMUM 1-1/4 INCH LONG.

B. INSTALLATION:
1. INSTALL SQUARE EDGE BOARDS PARALLEL OR PERPENDICULAR TO FRAMING. INSTALL BOARDS PARALLEL TO FRAMING AT FIRE RATED WALLS. APPLY SHEATHING WITH JOINTS STAGGERED. ALL EDGES SHALL BE FIRMLY SUPPORTED.
2. INSTALL SHEATHING WITH COATING TOWARDS EXTERIOR.
3. SCREW TO FRAMING. SPACE FASTENERS 8 INCHES O.C. IN FIELD AND 4 INCHES O.C. AT ENDS ALONG EACH FRAMING MEMBER.
4. DO NOT BRIDGE EXPANSION OR SEISMIC JOINTS.

092900 GYPSUM BOARD

A. QUALITY CONTROL: PROVIDE ASSEMBLIES MEETING THE HOURLY FIRE RATINGS INDICATED. ASSEMBLIES SHALL BE APPROVED BY THE LOCAL JURISDICTIONAL CODE AUTHORITIES.

B. MATERIALS:
1. GYPSUM BOARD:
   a. 5/8 INCH THICK UNLESS NOTED OTHERWISE; PROVIDE TYPE X IN FIRE RATED PARTITIONS.
   b. STANDARD BOARD: ASTM C36.
   c. WATER RESISTANT BOARD: ASTM C630.
2.ACCESSORIES:
   a. TRIM: CONCEALED FLANGE SCREW-ON TYPE; METAL; GA 216.
   b. JOINT COMPOUND, TAPE, AND FINISHING COMPOUND: ASTM C475 AND GA 216.
   c. SCREWS: ASTM C1002.
   d. PROPRIETARY SKIM COAT: USG "TUFF-HIDE SHEETROCK BRAND PRIMER-SURFACER."

C. INSTALLATION:
1. INSTALLATION STANDARD: UNLESS SPECIFIED OTHERWISE, PERFORM WORK IN ACCORDANCE WITH GYPSUM ASSOCIATION 216, "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD."
2. INSTALL WATER RESISTANT BOARD RESTROOM WALLS AS A SUBSTRATE FOR SURFACES SCHEDULED TO RECEIVE CERAMIC TILE IN TOILET COMPARTMENTS.
3. SCREW FASTEN BOARD TO FRAMING, UNLESS APPROVED OTHERWISE.
4. TRIM:
   a. USE LONGEST PRACTICAL LENGTHS, WITH NO PIECE LESS THAN 2 FEET LONG FOR CONTINUOUS RUNS GREATER THAN 8 FEET. SECURELY FASTEN AND ALIGN TRIM ENDS AT JOINTS.
   b. PLACE CONCEALED FLANGE CORNER BEADS AT ALL EXTERNAL CORNERS. AT ANGLES OTHER THAN 90 DEGREES, BEND THE FLANGE TO CONFORM TO THE ANGLE.
   c. PLACE CONCEALED FLANGE TYPE L TRIM WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
   d. USE J TRIM AT EXPOSED GYPSUM BOARD EDGES WHERE SEALANT JOINT IS INDICATED.

DIV. 9 - FINISHES - cont.

5.CONTROL JOINTS:
   a. POSITION CONTROL JOINTS TO INTERSECT LIGHT FIXTURES, AIR DIFFUSERS, DOOR OPENINGS, AND OTHER AREAS OF STRESS CONCENTRATION.
   b. POSITION CONTROL JOINTS AT LOCATIONS WHERE CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE.
   c. LOCATE CONTROL JOINTS TO FORM RECTANGULAR OR SQUARE SECTIONS, IN "L," "U," "T," OR OTHER IRREGULARLY SHAPED AREAS.
6. EXPANSION JOINTS:
   a. FWF-200 BY C/S CONSTRUCTION SPECIALTIES COMPANY (570/546-5941). COLOR AS INDICATED ON THE DRAWINGS.
   b. POSITION EXPANSION JOINTS AT LOCATIONS WHERE EXPANSION JOINTS OCCUR IN THE BUILDING STRUCTURE.
7. FINISHING:
   a. PROVIDE FINISHING IN ACCORDANCE WITH GA 214.
   b. WHERE NECESSARY TO SAND, DO SO WITHOUT DAMAGING THE FACE OF THE GYPSUM BOARD.
   c. LEVELS OF FINISH:
      1) LEVEL 5: PROVIDE AT THE FOLLOWING LOCATIONS:
         a) SURFACES PERPENDICULAR AND ADJACENT TO OR NEAR (WITHIN 24 INCHES OF) EXTERIOR WINDOWS, AND SURFACE MOUNTED LIGHT FIXTURES.
         b) SURFACES TO RECEIVE DEEP TONE COLORS
         c) SURFACES TO RECEIVE VENEER PLASTER FINISHES
         d) AT COLUMNS WITH RECESSED WALL STANDARDS
         e) AT STOREFRONTS
      2) LEVEL 4: PROVIDE UNLESS INDICATED OR SPECIFIED OTHERWISE.
      3) LEVEL 3: PROVIDE AT THE FOLLOWING LOCATIONS:
         a) SURFACES TO RECEIVE FABRIC WALL COVERING.
      4) LEVEL 2: PROVIDE AT THE FOLLOWING LOCATIONS:
         a) STORAGE ROOMS.
         b) MECHANICAL ROOMS.
         c) JANITORS CLOSETS.
         d) SURFACES TO RECEIVE TILE OR OTHER THICK FINISH MATERIALS APPLIED TO GYPSUM BOARD SURFACES.
      5) LEVEL 1: PROVIDE AT THE FOLLOWING LOCATIONS:
         a) SURFACES OF FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK ("FIRE-TAPING").
         b) SURFACES OF ACOUSTICAL ASSEMBLIES CONCEALED FORM VIEW IN THE FINISHED WORK
      6) LEVEL 0: PROVIDE AT THE FOLLOWING LOCATIONS:
         a) SURFACES OF NON-FIRE RATED ASSEMBLIES CONCEALED FROM VIEW IN THE FINISHED WORK, INCLUDING SURFACES TO BE COVERED BY CASEWORK, WOOD PANELING,
   d. LEVEL 4 AND 5 FINISHES: RETURN TO THE SITE AFTER PRIMER IS APPLIED, AND TOUCH-UP URFACE DEFECTS.
   e. PROPRIETARY SKIM COAT MATERIAL MAY BE USED IN LIEU OF JOINT COMPOUND AS SKIM COAT AT LEVEL 5 SURFACES.

D. TOLERANCES:
1. FLAT PLASTER SURFACES SHALL BE STRAIGHT WITHIN 1/8" IN 10 FEET WHEN TESTED WITH A STRAIGHTEDGE IN ANY DIRECTION.
2. CURVED SURFACES: TRUE TO THE RADIUS INDICATED WITH NO FLAT SPOTS OR WAVES; RADII SHALL BE UNIFORM AND NOT VARY FROM INDICATED DIMENSIONS BY MORE THAN 1/8" IN 10 FEET.
3. CORNERS AND EDGES: SHARP WITH NO BUILD UP OF SURFACE MATERIAL; STRAIGHT WITHIN 1/16 INCH IN 1 FOOT AND 1/8 INCH IN 10 FEET.
4. ALIGNMENT: JOINTS BETWEEN ACCESSORIES SHALL BE ALIGNED TO WITHIN 1/32 INCH.

093000 TILE

A. SUMMARY:
1. SECTION INCLUDES:
   a. INTERIOR TILE RESTROOM TILE.
   b. REINFORCED WATERPROOF MEMBRANES.
   c. CRACK ISOLATION MEMBRANES.
   d. SCREEDS
   e. SEALER.
2. RELATED SECTIONS:
   a. 044216 - MECHANICALLY ANCHORED STONE VENEER: EXTERIOR STONE CLADDING.

B. REFERENCES:
1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
   a. A108.1 - CERAMIC TILE INSTALLED WITH PORTLAND CEMENT MORTAR.
   b. A108.4 - CERAMIC TILE INSTALLED WITH WATER-RESISTANT ORGANIC ADHESIVE.
   c. A108.5 - CERAMIC TILE INSTALLED WITH DRY-SET AND LATEX PORTLAND CEMENT MORTAR.
   d. A118.4 - LATEX-PORTLAND CEMENT MORTAR.
   e. A108.10 - INSTALLATION OF GROUT IN TILEWORK.
   f. A118.4 - LATEX-PORTLAND CEMENT MORTAR.
   g. A136.1 - ORGANIC ADHESIVE FOR INSTALLATION OF CERAMIC TILE
   h. A137.1 - CERAMIC TILE
2. TILE COUNCIL OF AMERICA (TCA):
   a. HANDBOOK OF FOR CERAMIC TILE INSTALLATION, CURRENT EDITION.

C. SUBMITTALS:
1. SAMPLES:
   a. TILE: SUBMIT SAMPLES OF EACH TYPE AND COLOR OF TILE. INCLUDE REPRESENTATIVE RANGE OF COLORS AND FINISHES TO BE EXPECTED.
   b. GROUT: SUBMIT CURED SAMPLES OF EACH GROUT COLOR.
   c. SCREEDS: SUBMIT SAMPLES OF EACH TYPE AND FINISH OF SCREED; MINIMUM 3 INCH LENGTH.
2. PRODUCT DATA: SUBMIT FOR EACH TYPE OF GROUT, ADHESIVE, ADDITIVE, ACCESSORY, AND MEMBRANE SPECIFIED.
3. SHOP DRAWINGS: INDICATE GENERAL LAYOUT, SURROUNDING CONSTRUCTION, LOCATION OF EXPANSION JOINTS IN SUBSTRATES AND TILE FIELDS, EDGE DETAILS, AND SPECIAL CONDITIONS.
4. SCHEDULE: SUBMIT A SCHEDULE OF EACH TILE TYPE, GROUT, AND JOINT WIDTH COMBINATION PROPOSED.

D. QUALITY ASSURANCE:
1. CONFORM TO ANSI STANDARD SPECIFICATIONS FOR THE INSTALLATION OF CERAMIC TILE.

E. MAINTENANCE:
1. FURNISH 1 PERCENT ADDITIONAL QUANTITIES OF EACH TYPE OF TILE INSTALLED FOR MAINTENANCE PURPOSES.
2. LEAVE EXTRA STOCK AT SITE WHERE DIRECTED, IN CLEARLY MARKED SEALED CARTONS.
3. TILE WHICH IS USED TO SATISFY EXTRA STOCK REQUIREMENTS SHALL BE FREE OF DAMAGED TILES, SECONDS, OR TILE WHICH IS NOT IN CONFORMANCE WITH THESE SPECIFICATIONS.

F. TILE:
1. TILE TYPES: AS LISTED ON THE MATERIALS AND FINISH LEGEND.
2. FURNISH TILE MANUFACTURED IN ACCORDANCE WITH ANSI A137.1.
3. SPECIAL SHAPES: UNLESS OTHERWISE INDICATED OR SPECIFIED, FURNISH SPECIAL SHAPES AS STANDARD WITH THE TILE MANUFACTURER FOR UNIFORM TRANSITIONS AND CONCEALED EDGES IN THE FINISHED INSTALLATION. SPECIAL SHAPES INCLUDE BULLNOSES, DOUBLE BULLNOSES, CORNER BULLNOSES, AND COVE ASSEMBLIES.

G. ACCESSORY MATERIALS:
1. TILE SETTING MATERIALS:
   A. THINSET MORTAR: "KERABOND" WITH "UNIVERSAL KERALASTIC" BY MAPEI CORP., "211 CRETE FILLER POWDER" WITH 4237 LATEX THIN-SET MORTAR ADDITIVE," BY LATICRETE INTERNATIONAL, INC.,HYDROMENT"TILE-MATE PREMIUM" WITH "447 FLEX-A-LASTIC" BY BOSTIK, OR APPROVED.
   B. RAPID-SET THIN BED MORTAR: "GRANI/RAPID" WITH "KER 318" FLEXIBLE ADMIXTURE" BY MAPEI CORP.,HYDROMENT "SINGLE FLEX FS," BY BOSTIK, OR "211 CRETE FILLER POWDER" WITH "4237 LATEX THIN-SET MORTAR ADDITIVE" AND "101 RAPID SET LATEX" (PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED)," BY LATICRETE INTERNATIONAL, INC.
   C. MEDIUM BED MORTAR: "GRANI/RAPID" BY MAPEI CORP., HYDROMENT "MEDIUM BED MORTAR" BY BOSTIK, OR "226 THICK BED MORTAR MIX" WITH "3701 LATEX MORTAR ADMIX," BY LATICRETE INTERNATIONAL, INC., OR APPROVED.
   D. RAPID SET MEDIUM BED MORTAR: "GRANI/RAPID" BY MAPEI CORP., OR "211 CRETE FILLER POWDER" WITH "3701 LATEX MORTAR ADMIX" AND "101 RAPID SET LATEX"(PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED), BY LATICRETE INTERNATIONAL, INC., OR APPROVED.
   E. ORGANIC ADHESIVES: ANSI A136.1, TYPE I; PROVIDE PRIMER/SEALER AS RECOMMENDED BY THE ADHESIVE MANUFACTURER.
2. CEMENTITIOUS SANDED GROUT:
   A. FAST SETTING: "ULTRA/COLOR" BY MAPEI CORP., "FLOOR JOINT AND GROUT FILLER" WITH "3701 LATEX MORTAR ADMIXTURE" AND "101 RAPID SET LATEX", BY LATICRETE INTERNATIONAL, INC. (PROPORTIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SETTING TIME REQUIRED); SANDED, EXCEPT UNSANDED AT JOINTS SCHEDULED LESS THAN 1/8 INCH WIDE.
   B. STANDARD GROUT: "KER 200" BY MAPEI CORP., OR "500 SERIES SANDED GROUT" WITH "1776 GROUT ADMIX PLUS", BY LATICRETE INTERNATIONAL, INC., HYDROMENT"CERAMIC TILE GROUT /JOINT FILLER" WITH "425 FLEXIBLE GROUT ADMIXTURE" BY BOSTIK; SANDED, EXCEPT UNSANDED AT JOINTS LESS THAN 1/8 INCH WIDE.
   C. COLORS: AS SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S STANDARD LINE.
3. CEMENTITIOUS UNSANDED GROUT:
   A. STANDARD GROUT: "KER 800" BY MAPEI CORP., OR "500 SERIES UNSANDED GROUT" WITH "1776 GROUT ADMIX PLUS" BY LATICRETE INTERNATIONAL, INC., HYDROMENT "CERAMIC TILE GROUT /JOINT FILLER" WITH "425 FLEXIBLE GROUT ADMIXTURE" BY BOSTIK.
   B. COLORS: AS SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S STANDARD LINE.
4. TILE WATERPROOFING MEMBRANE;
   A. "HYDROMENT ULTRA-SET," BY BOSTIK.
   B. "PRP 315" BY MAPEI CORP.
   C. "LATICRETE 9235," BY LATICRETE INTERNATIONAL,
5. METAL SCREED: AS MANUFACTURED BY SCHLUTER SYSTEMS, INC. (800/225-8902), OR CERAMIC TOOL COMPANY, (800/236-5230); CLEAR ANODIZED ALUMINUM TILE EDGING TRIM; SIZES AS REQUIRED FOR INSTALLATION OF TOP OF SCREED FLUSH WITH TOP OF TILE, AS DETAILED.
6. SILOXANE TYPE TILE SEALER:
   A. CERAMASEAL "MAGIC SEAL" BY BOSTIK/CERAMASEAL (800/523-6530).
   B. MIRACLE SEALANTS "511-H20" BY MIRACLE SEALANTS AND ABRASIVES COMPANY (800/350-1901).

H. PREPARATION:
1. CLEAN SUBSTRATE SURFACES FREE OF GREASE, DIRT, DUST, ORGANIC IMPURITIES, AND OTHER MATERIALS WHICH WOULD IMPAIR BOND.
2. MECHANICALLY ABRADE AND THEN WASH EXISTING TILE FLOORS INDICATED TO BE COVERED WITH NEW CERAMIC TILE.

I. SLAB LEVELING:
1. PRIOR TO INSTALLATION OF THINSET FLOOR TILE, WHERE LOCAL IRREGULARITIES IN THE SUBSTRATE SURFACE WOULD PREVENT LEVEL INSTALLATION OF THE TILE, THE SUBSTRATE SHALL BE BROUGHT TO PLANE SURFACE WITH VARIATIONS NOT TO EXCEED 1/8 INCH IN 4 FEET (CUMULATIVE) AND 1/4 INCH IN 10 FEET (NON-CUMULATIVE). SMOOTH ALL ABRUPT CHANGES IN PLANE.
2. USE THINSET MORTAR OR OTHER FILLER FOR SLAB LEVELING. OTHER FILLERS ARE SUBJECT TO ENDORSEMENT BY THE SETTING MORTAR MANUFACTURER. SUBMIT MANUFACTURER'S LETTER OF APPROVAL TO THE ARCHITECT, AND THE OWNER'S REPRESENTATIVE.
3. SCREED OR FLOAT TO APPROPRIATE THICKNESS AND SPECIFIED SURFACE TOLERANCE. ALLOW TO SET PRIOR TO PROCEEDING WITH INSTALLATION. DO NOT EXCEED THE MAXIMUM THICKNESSES FOR THIN BED MORTAR AS RECOMMENDED BY THE MANUFACTURER.

J. CRACK ISOLATION.
1. INSTALL CRACK ISOLATION MEMBRANE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE.
2. PROVIDE CRACK ISOLATION MEMBRANE AT FOLLOWING LOCATIONS:
   A. AT CONTROL AND CONSTRUCTION JOINTS IN CONCRETE FLOORS.
   B. AT CHANGES IN SUBSTRATE MATERIALS.
   C. SURFACES OF SUSPENDED SLABS MINIMUM 15" EACH SIDE OF BUILDING COLUMN GRID LINES (TOTAL OF 30",MINIMUM) AT CONCRETE DECK CONSTRUCTION WITH METAL DECK.
   D. SHRINKAGE CRACKS 1/16 INCH OR LARGER IN SLABS.
3. EXTEND A MINIMUM OF 12 INCHES EACH SIDE OF CRACK OR JOINT.
4. DO NOT APPLY CRACK ISOLATION MEMBRANE AT JOINTS WHICH WILL BE REFLECTED AS EXPANSION JOINTS IN THE TILE.
5. OMIT CRACK ISOLATION AT FLOORS INDICATED FOR WATERPROOF MEMBRANE.

K. WATERPROOF MEMBRANE INSTALLATION:
1. INSTALL WATERPROOF MEMBRANES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. INSTALL WATERPROOF MEMBRANES AT RESTROOM LOCATIONS
3. AT SLAB ON GRADE LOCATIONS, INSTALL WATERPROOF MEMBRANES ONLY ALONG THE PERIMETER OF TILE AREAS. EXTEND THE MEMBRANE UP THE WALL AND A MINIMUM OF 6 INCHES OUT ONTO THE FLOOR SURFACE.
4. AT ABOVE GRADE LOCATIONS, INSTALL WATERPROOF MEMBRANE COMPLETELY OVER FLOOR SURFACES INDICATED, AND UP THE WALL.
5. WHERE THE WATERPROOF MEMBRANE IS EXTENDED UP THE WALL, EXTEND TO ONE TILE HEIGHT. DO NOT EXPOSE THE WATERPROOF MEMBRANE TO VIEW.
6. USE EMBEDDED REINFORCING MESH AT CHANGES IN PLANE AND MATERIAL.
7. PROTECT WATERPROOF MEMBRANE FROM DAMAGE UNTIL AFTER TILE INSTALLATION IS COMPLETE.
8. INSTALL WATERPROOF MEMBRANE INTO CLAMPING RING OF FLOOR DRAIN.

L. INSTALLATION OF TILE:
1. INTERIOR FLOOR APPLICATION - THINSET OVER CONCRETE SUBSTRATE OR WATERPROOF MEMBRANE.
   A. TCA SYSTEM: SIMILAR TO F113.
   B. INSTALLATION STANDARD: ANSI A108.5.
   C. SETTING MATERIALS: THINSET MORTAR; 3/32 INCH MINIMUM THICKNESS.
2. WALL APPLICATION - GYPSUM BOARD SUBSTRATE: ONE OF THE FOLLOWING:
   A. THINSET MORTAR SYSTEM
      1) TCA SYSTEM: SIMILAR TO W243.
      2) INSTALLATION STANDARD: ANSI A108.5.
      3) SETTING MATERIALS: THINSET MORTAR.
   B. ORGANIC ADHESIVE SYSTEM:
      1) TCA SYSTEM: W223.
      2) INSTALLATION STANDARD: ANSI A108.4.
      3) SETTING MATERIALS: ORGANIC ADHESIVE.
3. JOINT PATTERN:
   A. LAY OUT TILE PATTERN PRIOR TO COMMENCING TILE INSTALLATION.
   B. ACCURATELY LOCATE GROUT JOINTS ON LINES INDICATED; WHERE NOT INDICATED, ADJUST GROUT JOINTS WITHIN SPECIFIED TOLERANCES TO MINIMIZE USE OF CUT TILES AT FIELD EDGES.
   C. WHERE CUT TILES ARE NECESSARY, POSITION TILE SUCH THAT CUT TILE AT EACH EDGE OF EACH RECTILINEAR FIELD IS NOT LESS THAN HALF OF A FULL SIZE UNIT, UNLESS INDICATED OTHERWISE.
4. TILES SHALL BE BLENDED AS REQUIRED TO AVOID PATTERN REPEATS AND "PATCHES" OF ADJOINING TILES OF DISTINCTIVE COLOR OR CHARACTER WITHIN EACH FIELD AREA.
5. INSTALL TILES ALIGNED WITH ADJACENT FINISHES, WHERE INDICATED. PROVIDE MORTAR FILL AS NECESSARY FOR PROPER ALIGNMENT.
6. EXCEPT AS OTHERWISE INDICATED, INSTALL BULLNOSE TILES AT EXPOSED TILE EDGES, INCLUDING EDGES ADJACENT TO CARPET, EDGES OF PLANTERS, EXTERNAL CORNERS, AND TOPS OF BASES.
7. CERAMIC TILE: INSTALL COVED TRANSITION PIECES TO MATCH HORIZONTAL SURFACE TILE COLORS IN RESTROOMS, AT INTERSECTIONS OF FLOOR TILE WITH WALLS. INSTALL TILE FOR SQUARE CORNERS AT VERTICAL INSIDE CORNERS.
8. CLEAN JOINTS OF MORTAR TO MINIMUM DEPTH OF 1/4 INCH TO ALLOW SUBSEQUENT GROUT INSTALLATION.
9. PROVIDE TEMPORARY SETTING BUTTONS AND SHIMS AS NECESSARY TO MAINTAIN WALL TILES IN POSITION UNTIL SETTING MORTAR HAS SET.
10. TOLERANCES:
   A. JOINT WIDTH VARIATION: PLUS OR MINUS 25% OF THE PROPOSED JOINT WIDTH.

DIV. 9 - FINISHES - cont.

   B. TAPER: PLUS OR MINUS 25% FROM ONE END TO THE OTHER.
   C. NO PORTION OF A TILE SURFACE SHALL VARY MORE THAN 1/16 INCH ABOVE OR BELOW AN ADJACENT TILE SURFACE.
   D. INSTALL TILE FIELDS LEVEL TO WITHIN TOLERANCE SPECIFIED FOR FINISHED SUBSTRATE.
11. SCREED INSTALLATION:
   A. INSTALL SCREEDS AT TILE FIELD EDGES AT THE LOCATIONS INDICATED.
   B. ACCURATELY CUT TO LENGTH FOR FLUSH TIGHTLY BUTTED JOINTS. PROVIDE MITER CUT ANGLE JOINTS. REMOVE BURRS AT FIELD CUTS.
   C. INSTALL IN LONGEST POSSIBLE LENGTHS, EXCEPT THAT NO SCREED SECTION SHALL BE LONGER THAN 12 FEET OR SHORTER THAN 4 FEET IN LENGTH FOR CONTINUOUS RUNS GREATER THAN 16 FEET.
   D. INSTALL SCREEDS FREE FROM WAVES AND VARIATIONS IN HEIGHT, FLUSH WITH TOP OF ADJACENT TILE SURFACES.
   E. SET SCREEDS DIRECTLY IN SETTING BED AS THE TILE INSTALLATION PROCEEDS. COMPLY WITH SCREED MANUFACTURER'S INSTRUCTIONS TO ACHIEVE MORTAR TIGHTLY COMPACTED BETWEEN SCREED AND TILE EDGE.
   F. GRIND SCREED JOINTS AS NECESSARY TO CORRECT MINOR MISALIGNMENT AND TO EASE SHARP OUTSIDE CORNERS.

M. EXPANSION JOINTS:
1. PLACE EXPANSION JOINTS AT MAXIMUM 30 FOOT INTERVALS FOR INTERIOR INSTALLATIONS.
2. PLACE EXPANSION JOINTS AT CONTROL AND EXPANSION JOINTS IN CONCRETE SLABS, AND AT INTERSECTIONS WITH WALLS AND COLUMNS.
3. JOINT SIZES: SET TO MATCH WIDTH OF TYPICAL GROUTED JOINT; BUT IN NO CASE LESS THAN 1/4".
4. LEAVE EXPANSION JOINTS FREE OF MORTAR.
5. SEALANT MATERIALS AND INSTALLATION ARE SPECIFIED IN SECTION 079200.

N. GROUTING:
1. COMPLY WITH PROVISIONS OF ANSI A108.10.
2. MIX GROUTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. GROUT ALL JOINTS, EXCEPT EXPANSION JOINTS, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FLOAT JOINTS TO A SLIGHTLY CONCAVE PROFILE.
4. REMOVE EXCESS GROUT FROM TILE SURFACES IN ACCORDANCE WITH THE GROUT AND TILE MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXCESS AMOUNTS OF WATER.
5. PROTECT ADJACENT SURFACES FROM DAMAGE CAUSED BY CLEANING AGENTS. DO NOT USE CLEANERS WHICH WOULD DAMAGE TILE OR GROUT SURFACES.
6. DO NOT GROUT JOINTS INDICATED TO RECEIVE SEALANTS, INCLUDING INSIDE RIGHT ANGLE CORNER JOINTS BETWEEN FLOORS AND WALLS OF COLUMN BASES. GROUT JOINTS PERPENDICULAR TO EXPANSION JOINTS SHALL BE FINISHED FLUSH WITH TILE EDGES.
7. CURED GROUT JOINTS SHALL BE MADE FREE OF EFFLORESCENCE, PRIOR TO SEALING.

O. CURING: CURE INSTALLATION IN ACCORDANCE WITH THE GROUT MANUFACTURER'S RECOMMENDATIONS. PROTECT TILE AND GROUT DURING CURING OPERATIONS.

P. PROTECTION:
1. PROTECT TILE INSTALLATIONS FROM DAMAGE.
2. REPLACE ALL DAMAGED TILES.

Q. CLEANING:
1. IN ACCORDANCE WITH SECTION 015000 AND SECTION 017700.
2. COORDINATE FINAL CLEANING WITH WORK OF SECTION 079200. DO NOT BEGIN CLEANING OPERATIONS UNTIL TILE EXPANSION JOINTS SEALANTS ARE FULLY CURED.
3. WASH AND THOROUGHLY RINSE ALL TILE. LEAVE ALL TILE SURFACES CLEAN.

R. TILE SEALING:
1. APPLY STAIN REPELLENT SEALER TO ALL FLOOR TILE, INCLUDING THOSE WITH PREVIOUS TREATMENTS, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE MAXIMUM PENETRATION INTO TILE BODY AND GROUTS.
2. APPLY SEALER AT EARLIEST POSSIBLE DATE ALLOWED BY GROUT AND SEALER MANUFACTURER.
3. WIPE TILE SURFACES AFTER APPLICATION AS NECESSARY TO REMOVE ALL VISIBLE SEALER RESIDUE.

096429 SITE FINISHED WOOD FLOORING

A. SECTION INCLUDES:
1. SITE FINISHED FLOORING
2. MOISTURE BARRIER.
3. UNDERLAYMENT.
4. INSTALLATION OF WOOD STRIP FLOORING.

B. REFERENCES:
1. NATIONAL WOOD FLOORING ASSOCIATION (NWFA) - HARDWOOD FLOORING INSTALLATION MANUAL.
2. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM): F1869 - STANDARD TEST METHOD FOR MEASURING MOISTURE VAPOR EMISSION RATE OF CONCRETE SUBFLOOR USING ANHYDROUS CALCIUM CHLORIDE.

C. SUBMITTALS:
1. PRODUCT DATA: SUBMIT PRODUCT DATA FOR FINISHING SYSTEM.

D. QUALITY ASSURANCE:
1. INSTALLER QUALIFICATIONS:
   A. MINIMUM OF 5 YEARS EXPERIENCE IN THE INSTALLATION AND FINISHING OF HARDWOOD STRIP FLOORING WITH PROJECTS SIMILAR TO THE WORK OF THIS CONTRACT.
   B. USE ONLY SKILLED AND EXPERIENCED WOOD FLOORING INSTALLERS FOR PREPARATION OF SUBSTRATE AND ACTUAL INSTALLATION OF HARDWOOD FLOORING.

E. GUARANTEE: PROVIDE WRITTEN GUARANTEE FROM INSTALLATION CONTRACTOR COVERING ALL MATERIALS USED FOR A PERIOD OF ONE YEAR, AND WORKMANSHIP AND INSTALLATION FOR THE PERIOD OF TWO YEARS, BOTH FROM THE DATED OF SUBSTANTIAL COMPLETION.

F. DELIVERY STORAGE AND HANDLING:
1. PROTECT WOOD FLOORING FROM EXCESSIVE MOISTURE IN STORAGE, HANDLING, AND INSTALLATION.
2. DO NOT DELIVER MATERIALS TO BUILDING UNTIL "WET WORK" SUCH AS CONCRETE, PLASTER AND DRYWALL HAVE BEEN COMPLETED AND CURED TO A CONDITION OF EQUILIBRIUM.
3. PROVIDE PERMANENT HEAT, LIGHT, AND VENTILATION PRIOR TO INSTALLATION.
4. ROOM TEMPERATURE: MAINTAIN ROOM TEMPERATURE OF A MINIMUM OF 65 DEGREES F AND A MAXIMUM OF 80

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7. SLIP SHEET: #15 ASPHALT SATURATED FELT PAPER COMPLYING WITH ASTM D4869.
8. WOOD FILLER: LATEX-BASED PUTTY TO MATCH COLOR OF WOOD FLOORING.
9. WOOD TRIM: IN SAME GRADE AND SPECIES AS WOOD FLOORING, UNLESS OTHER INDICATED.

H. MOISTURE TESTING OF CONCRETE SLABS:
1. PERFORM TESTS IN ACCORDANCE WITH ASTM F1869.
2. NOTIFY THE ARCHITECT IS TESTS RESULTS SHOW A VAPOR EMISSION RATE WHICH EXCEEDS
3. 5 LBS PER 1000 SQ. IN A 24 HOUR PERIOD.

I. PREPARATION:
1. USE LATEX FILLER TO PATCH CRACKS, SMALL HOLES, AND FOR MINOR LEVELING. ENSURE FLOOR SURFACE IS SMOOTH AND FLAT TO PLUS OR MINUS 1/8 INCH/10 FEET
2. SUBSTRATES SHALL BE SOUND, DRY, SMOOTH, LEVEL, CLEAN; AND FREE OF CRACKS, VOIDS, RIDGES, FOREIGN MATERIALS AND SUBSTANCES.
3. POWER VACUUM SUBSTRATE SURFACE IMMEDIATELY PRIOR TO INSTALLATION.

J. ACCLIMATION:
1. THE WOOD FLOORING SHOULD ARRIVE TO SITE WITH A MOISTURE CONTENT OF 6% - 9%. IN THE EVENT THAT THE FLOORING ARRIVES WITH A HIGHER MOISTURE CONTENT, CONTACT THE SUPPLIER AND ALLOW MORE TIME FOR ACCLIMATION. ACCLIMATION PERIOD IS 7 DAYS.
2. MOISTURE CONTENT OF THE PLYWOOD SHOULD NOT EXCEED THE HARDWOOD FLOORING BY 4%.
3. CARTONS SHOULD BE ARRANGED AND STACKED TO ALLOW FOR MAXIMUM CROSS VENTILATION AND SHOULD BE PLACED ON BLOCKS MINIMUM 2 INCHES OFF SUBSTRATE. DO NOT STACK BUNDLES OF WOOD FLOORING ANY HIGHER THAN 6 FEET.
   A. INLAY: UN-FINISHED 3/4" X 8" SOLID NORTHERN WHITE OAK SELECT GRADE OR BETTER, T&G, END MATCHED, RANDOM LENGTH PLANK FLOORING. 48" - 7'. MFR TBD

K. FLOORING INSTALLATION:
1. INSTALL WOOD FLOORING IN ACCORDANCE WITH NWFA STANDARDS AND AS SPECIFIED BELOW.
2. MOISTURE BARRIER:
   A. TROWEL-APPLY MOISTURE BARRIER ADHESIVE ON SUBSTRATE AT A RATE OF 100 QUARE FEET PER GALLON.
   B. NSTALL MOISTURE BARRIER OVER SLAB AREA TO RECEIVE WOOD FLOORING. ROLL MOISTURE BARRIER INTO ADHESIVE WITH 150-POUND ROLLER UNTIL FLAT.
   C. OVERLAP SIDES AND ENDS 4 TO 6 INCHES; WHERE WOOD BASE IS INDICATED, ALLOW ENOUGH MATERIAL AT FLOOR EDGES TO EXTEND UNDER BASE.
3. PLYWOOD UNDERLAYMENT:
   A. ACCURATELY CUT AND LOOSE LAY PLYWOOD UNDERLAYMENT OVER MOISTURE BARRIER.
   B. LAY WITH LONG DIMENSION OF PLYWOOD PARALLEL TO LONG DIMENSION OF FLOORING FIELD, END JOINTS STAGGERED.
   C. LEAVE 1/4 INCH TO 1/2 INCH GAP BETWEEN PANELS; LEAVE 3/8 INCH GAP AT CASEWORK AND AT LINE OF ADJOINING TILE EDGE; LEAVE 3/4 INCH GAP AT WALLS.
   D. WHEN ALL UNDERLAYMENT PANELS ARE IN PLACE, FASTEN TO CONCRETE SLAB WITH POWDER ACTUATED FASTENERS. FASTEN CENTER OF UNDERLAYMENT PANEL FIRST, THEN WORK TOWARDS EDGES. SPACE FASTENERS UNIFORMLY OVER THE SHEET, USING A MINIMUM OF 12 FASTENERS PER 4 X 8 SHEET.
4. FLOORING INSTALLATION:
   A. INSTALL ONE LAYER OF SLIP SHEET MATERIAL OVER PLYWOOD UNDERLAYMENT.
   B. INSTALL FINISH FLOORING OVER SLIP SHEET WITH BLIND NAIL FASTENERS IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS AND NWFA SPECIFICATIONS.
   C. PATTERN: INSTALL FIELD AND BORDER AS INDICATED ON THE DRAWINGS. LAY FLOORING WITH PLANKS PARALLEL IN RANDOM PATTERNS IN DIRECTION INDICATED ON THE DRAWINGS. STAGGER SEAMS TO AVOID STAIR-STEPPING. FIT NEATLY TO VERTICAL INTERRUPTIONS. SHORT PIECES SHOULD BE USED AS STARTER BOARDS OR INSTALLED UNDER PERMANENT FIXTURES.
   D. TONGUE AND GROOVE MATCH OR SPLINE SIDE TO END JOINTS.
   E. USE FASTENERS OF A LENGTH THAT WILL NOT PENETRATE THE MOISTURE BARRIER BUT FULLY ENGAGE THE UNDERLAYMENT.
   F. BULLNOSE DETAIL AT DISPLAY PLATFORMS SHALL HAVE AN EASED EDGE TO PREVENT CHIPPING.
   G. PROVIDE EXPANSION SPACE AT WALLS AND OBSTRUCTIONS.

L. FINISHING:
1. NO SANDING REQUIRED
2. APPLY THREE COATS OF BONAKEMI BONA NATURALE MATTE FINISH.

096500 RESILIENT FLOORING

A. SECTION INCLUDES:
1. RESILIENT SHEET FLOORING.
2. RESILIENT TILE FLOORING.

B. REFERENCES:
1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
   A. F710 - PREPARING CONCRETE FLOORS TO RECEIVE RESILIENT FLOORING.

C. SUBMITTALS:
1. PRODUCT DATA:
   A. RESILIENT FLOORING.
   B. ACCESSORIES.
2. SHOP DRAWINGS: INDICATE FLOOR PATTERN, COLOR OF VARIOUS MATERIALS, AND LOCATION OF FLOOR ACCESSORIES.
3. SAMPLES:
   A. EACH TYPE AND COLOR OF RESILIENT FLOORING MATERIAL; NOT LESS THAN 8"X10" IN SIZE.
   B. SUBMIT SAMPLES, NOT LESS THAN 12 INCHES IN LENGTH, OF EACH TYPE OF TRANSITION STRIP REQUIRED FOR THE WORK.

D. ENVIRONMENTAL REQUIREMENTS:
1. MAINTAIN MINIMUM 70 DEGREES F AIR TEMPERATURE AT FLOORING INSTALLATION AREA FOR THREE DAYS PRIOR TO, DURING, AND FOR 24 HOURS AFTER INSTALLATION.
2. STORE FLOORING MATERIALS IN AREA OF APPLICATION. ALLOW THREE DAYS FOR MATERIAL TO REACH EQUAL TEMPERATURE AS AREA.

E. MAINTENANCE:
1. DELIVER 5 PERCENT OF EACH COLOR AND PATTERN OF FLOOR MATERIAL REQUIRED FOR PROJECT, FOR MAINTENANCE USE.
2. CLEARLY IDENTIFY EACH BOX OR ROLL.

F. MATERIALS:
1. RESILIENT FLOORING: AS SCHEDULED ON THE DRAWINGS.
2. ACCESSORIES:
   A. SUBFLOR FILLER: PORTLAND CEMENT BASED LATEX FILLER, MIXED WITH WATER TO RODUCE A SELF LEVELING UNDERLAYMENT, OR CEMENTITIOUS PASTE, AS APPROPRIATE TO PROJECT REQUIREMENTS.
   B. ADHESIVES:
      1) TYPES RECOMMENDED BY RESILIENT FLOORING MANUFACTURERS FOR SPECIFIC APPLICATION.
      2) ADHESIVES SHALL MEET THE REQUIREMENTS OF THE SOUTHERN CALIFORNIA SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1168. (MAXIMUM VOC CONTENT OF 50 GRAMS/LITER FOR FLOOR COVERING AND RESILIENT BASE ADHESIVES; 60 GRAMS/LITER FOR RUBBER FLOORING ADHESIVES).
   C. TRANSITION STRIPS: VINYL; COLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD.
   D. SEALER AND WAX: TYPE AS RECOMMENDED BY THE MANUFACTURER OF THE FLOORING MATERIAL TO BE SEALED AND WAXED.
   E. ALL OTHER MATERIALS NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF RESILIENT FLOORING, SHALL BE ONLY AS RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL TO WHICH IT IS APPLIED AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

G. EXAMINATION:
1. EXAMINE SITE CONDITIONS AND VERIFY THAT THE WORK OF THIS SECTION MAY PROPERLY

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COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF UNSATISFACTORY CONDITIONS.
2. MOISTURE TESTING OF CONCRETE SLABS:
   A. TEST AT ALL CONCRETE SLABS INDICATED TO RECEIVE RESILIENT FLOORING, TO DETERMINE THE VAPOR EMISSION RATE.
   B. PERFORM TESTS IN ACCORDANCE WITH ASTM F1869.
3. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

H. PREPARATION:
1. PREPARE FLOORS IN ACCORDANCE WITH ASTM F710. INSTALL SUBFLOOR FILLER TO FILL LOW SPOTS, CRACKS, CONSTRUCTION JOINTS, HOLES AND OTHER DEFECTS, AND AS REQUIRED TO ADJUST LEVEL TO MEET ADJACENT FINISHES. FEATHER TO MAXIMUM SLOPE OF 1/8 INCH IN 1 FOOT; FLOAT TO SMOOTH, FLAT, HARD SURFACE. PROHIBIT TRAFFIC OVER FILLER.

I. INSTALLATION:
1. INSTALL ALL RESILIENT FLOORING WHERE SCHEDULED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. TERMINATE RESILIENT FLOORING AT CENTERLINE OF DOOR AT DOOR OPENINGS WHERE ADJACENT FLOOR FINISH IS DISSIMILAR, AND WHERE NO THRESHOLD IS INDICATED.
3. INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES WHERE FLOORING TERMINATES.
4. SCRIBE FLOORING TO WALLS, COLUMNS, CABINETS, FLOOR OUTLETS AND OTHER APPURTENANCES TO PRODUCE TIGHT JOINTS.
5. CLEAN SUBSTRATE. SPREAD CEMENT EVENLY IN QUANTITY RECOMMENDED BY MANUFACTURER'S RECOMMENDATIONS FOR ENTIRE AREA OF INSTALLATION. SPREAD ONLY ENOUGH ADHESIVE TO PERMIT INSTALLATION OF FLOORING BEFORE INITIAL SET.
6. SET FLOORING IN PLACE, PRESS WITH HEAVY ROLLER TO ENSURE FULL ADHESION.
7. SPECIAL REQUIREMENTS FOR SHEET FLOORING:
   A. INSTALL SHEET FLOORING TO A MINIMUM 1/3 FULL MATERIAL WIDTH, WITH LENGTH OF SHEET PARALLEL TO LENGTH OF ROOM. WHERE CUTTING IS REQUIRED, DOUBLE CUT AND WELD AS SPECIFIED. TRIM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
   B. HEAT WELD SEAMS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. USE WELDING ROD IN COLOR AS SELECTED BY THE ARCHITECT.
   C. UNLESS INDICATED OTHERWISE, LAY FLOORING WITH SEAMS PARALLEL TO BUILDING LINES TO PRODUCE MINIMUM NUMBER OF SEAMS.
8. SPECIAL REQUIREMENTS FOR RESILIENT TILE:
   A. OPEN FLOOR TILE CARTONS, ENOUGH TO COVER EACH AREA, AND MIX TILE TO ENSURE SHADE VARIATIONS DO NOT OCCUR WITHIN ANY ONE AREA.
   B. LAY TILES OR PLANKS IN QUARTER TURN PATTERN.
   C. INSTALL WITH MINIMUM TILE WIDTH 1/2 FULL SIZE AT ROOM OR AREA PERIMETER.
9. SEAL JOINT BETWEEN FLOORING AND ADJACENT MATERIALS AT RESTROOMS, BATHROOMS, KITCHENS, AND OTHER MOIST AREAS WITH CLEAR SILICONE SEALANT.

J. PROTECTION:
1. UNLESS RECOMMENDED OTHERWISE BY THE ADHESIVE MANUFACTURER, PROHIBIT TRAFFIC FROM RESILIENT FLOORING FOR 48 HOURS AFTER INSTALLATION.

K. CLEANING:
1. UPON COMPLETION OF THE INSTALLATION, IMMEDIATELY REMOVE ALL SURPLUS ADHESIVE FROM ADJACENT SURFACES.
2. AS SOON AS POSSIBLE AFTER INSTALLATION, AND IN ACCORDANCE WITH THE TIMING RECOMMENDED BY THE MANUFACTURERS, CLEAN THE ENTIRE RESILIENT FLOORING SURFACE USING THE MATERIALS RECOMMENDED FOR THAT PURPOSE BY THE MANUFACTURERS OF THE MATERIALS BEING CLEANED.
3.SEAL, AND WAX FLOOR SURFACES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

096513 RESILIENT BASE

A. MATERIALS:
1.RESILIENT BASE: AS SCHEDULED ON THE DRAWINGS.
2.PRIMERS AND ADHESIVES: TYPES AS RECOMMENDED BY RESILIENT BASE MANUFACTURER FOR SPECIFIC APPLICATION.

B. INSTALLATION:
1. ADHESIVE INSTALL BASE MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ADHERE TIGHTLY TO WALL AND FLOOR SURFACES.
2. USE MANUFACTURER'S LONGEST LENGTHS. WHERE CUTTING IS NECESSARY, MAINTAIN MINIMUM MEASUREMENT OF 18 INCHES BETWEEN JOINTS.
3. MITER OR COPE INSIDE CORNERS FOR ACCURATE FIT.
4. INSTALL BASE TO WALLS, COLUMNS, AND TO WOOD CASEWORK TOE KICKS IN ALL AREAS WHERE RUBBER BASE IS SCHEDULED.
5. SCORE BACK OF BASE MATERIAL WITH GROOVING TOOL, AT ALL OUTSIDE CORNERS; MAINTAIN MINIMUM LEG LENGTH 18 INCHES WHERE WALL LENGTH PERMITS. MOUNT BASE SO THAT SCORED GROOVE IS ACCURATELY ALIGNED WITH CORNER, AND WITH BASE TIGHTLY ADHERED TO WALL AT BOTH SIDES OF CORNER, WITH NO VISIBLE GAPS AT TOP OF BASE. WHERE COVE BASE IS FORMED AROUND OUTSIDE CORNERS, STRETCH TOE OF COVE FOR SMOOTH TRANSITION AROUND CORNER, WITH TOE IN UNIFORM CONTACT WITH THE FINISH FLOORING.
6. SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.
7. INSTALL STRAIGHT AND LEVEL TO VARIATION OF PLUS OR MINUS 1/8 INCH OVER 10 FEET.
8. COORDINATE INSTALLATION OF BASE WITH WORK OF SECTION 096800.
9. FIT JOINTS TIGHT AND VERTICAL.

C. CLEANING:
1. REMOVE EXCESS ADHESIVE FROM BASE AND WALL SURFACES WITHOUT DAMAGE.
2. CLEAN BASE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
   A. SUMMARY
1.SECTION INCLUDES:
   A. RESILIENT TREADS AND RISERS.
   B. SUBMITTALS
1. MAKE SUBMITTALS IN ACCORDANCE SECTION 013300.
2. PRODUCT DATA:
   A. RESILIENT TREADS AND RISERS.
   B. ACCESSORIES.
   C. QUALITY ASSURANCE
1. QUALIFICATIONS OF INSTALLERS:
   A. USE ONLY SKILLED AND EXPERIENCED RESILIENT FLOORING INSTALLERS FOR PREPARATION OF SUBSTRATE AND INSTALLATION OF RESILIENT FLOORING.
   B. HELPERS AND APPRENTICES USED FOR SUCH WORK SHALL BE UNDER FULL AND CONSTANT SUPERVISION AT ALL TIMES BY THOROUGHLY SKILLED RESILIENT FLOORING INSTALLERS.

D. DELIVERY, STORAGE, AND HANDLING
1. IN ACCORDANCE WITH SECTION 016000.

E. ENVIRONMENTAL REQUIREMENTS
1. MAINTAIN MINIMUM 70 DEGREES F AIR TEMPERATURE AT FLOORING INSTALLATION AREA FOR THREE DAYS PRIOR TO, DURING, AND FOR 24 HOURS AFTER INSTALLATION.
2. STORE FLOORING MATERIALS IN AREA OF APPLICATION. ALLOW THREE DAYS FOR MATERIAL TO REACH EQUAL TEMPERATURE AS AREA.

F. RESILIENT STAIR MATERIALS
1. MANUFACTURER: ONE OF THE FOLLOWING, SUBJECT TO ARCHITECT'S APPROVAL OF COLOR:
   A. BASIS OF DESIGN: ROPPE RUBBER CORP.
   B. PRODUCTS BY ONE OF THE FOLLOWING SUBJECT TO COMPLIANCE WITH THE CONTRACT DOCUMENTS:
      1) BURKE FLOORING PRODUCTS / BURKE INDUSTRIES.
      2) ALLSTATE RUBBER CORP.
      3) THE R.C.A. RUBBER COMPANY
2. TREADS:
   A. TREADS: ROPPE 92 LOW PROFILE STUDDED RUBBER DESIGN, MOLDED SOLID RUBBER WITH NOSINGS; BLACK COLOR; INCLUDE TREADS WITH TWO MINIMUM 1/2 INCH WIDE GROOVES FILLED FULL WITH YELLOW ABRASIVE COMPOUND AT NOSINGS FOR I NSTALLATION AT FIRST BOTTOM TREAD AND AT TOP OF EACH STAIR RUN.
   B.RISER: INTEGRAL WITH TREADS.

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G. ACCESSORIES
1. ADHESIVES: TYPES RECOMMENDED BY RESILIENT FLOORING MANUFACTURERS FOR SPECIFIC APPLICATION.
2. ALL OTHER MATERIALS NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF RESILIENT FLOORING, SHALL BE ONLY AS RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL TO WHICH IT IS APPLIED AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

H. EXAMINATION
1. EXAMINE SITE CONDITIONS AND VERIFY THAT THE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF UNSATISFACTORY CONDITIONS.
2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR D DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.

I. PREPARATION
1. CLEAN STEEL SUBSTRATE OF ALL OILS, SCALE, AND OTHER IRREGULARITIES WHICH MAY IMPEDE ADHESION.
2. PREPARE STEEL SUBSTRATE BY SANDING WITH 60 GRIT PAPER.

J. FLOORING INSTALLATION
1. INSTALL ALL RESILIENT TREADS AND RISERS WHERE SCHEDULED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. UNLESS INDICATED OTHERWISE, INSTALL RESILIENT TREADS AND RISERS WITH JOINTS AND SEAMS PARALLEL TO BUILDING LINES.
3. INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES WHERE TREADS AND RISERS TERMINATE.
4. SCRIBE FLOORING TO STRINGERS AND OTHER APPURTENANCES TO PRODUCE TIGHT JOINTS.
5. CLEAN SUBSTRATE. SPREAD CEMENT EVENLY IN QUANTITY RECOMMENDED BY MANUFACTURER TO ENSURE ADHESION OVER ENTIRE AREA OF INSTALLATION. SPREAD ONLY ENOUGH ADHESIVE TO PERMIT INSTALLATION OF TREADS AND RISERS BEFORE INITIAL SET.
6. SET TREADS AND RISERS IN PLACE, PRESS WITH HEAVY ROLLER TO ENSURE FULL ADHESION.
7. INSTALL STAIR TREADS AND RISERS, ONE PIECE FOR FULL WIDTH OF TREAD.
8. ADHERE OVER ENTIRE SURFACE AND FIT ACCURATELY AND SECURELY.

K. PROTECTION
1. UNLESS RECOMMENDED OTHERWISE BY THE ADHESIVE MANUFACTURER, PROHIBIT TRAFFIC F ROM RESILIENT FLOORING FOR 48 HOURS AFTER INSTALLATION.

L. CLEANING
1. UPON COMPLETION OF THE INSTALLATION, IMMEDIATELY REMOVE ALL SURPLUS ADHESIVE FROM ADJACENT SURFACES.
2. AS SOON AS POSSIBLE AFTER INSTALLATION, AND IN ACCORDANCE WITH THE TIMING RECOMMENDED BY THE MANUFACTURERS, CLEAN THE ENTIRE RESILIENT FLOORING SURFACE USING THE MATERIALS RECOMMENDED FOR THAT PURPOSE BY THE MANUFACTURERS OF THE MATERIALS BEING CLEANED.

096800 CARPETING

A. SECTION INCLUDES: GLUE DOWN CARPETING.

B. MAINTENANCE MATERIALS: SUPPLY A MINIMUM OF 5% NEW STOCK TO THE OWNER OF EACH TYPE AND COLOR OFCARPET USED IN THE PROJECT. OVERAGES SHALL BE IN FULL MANUFACTURED WIDTHS.

C. SUBMITTALS:
1. SAMPLES: SUBMIT CARPET SAMPLES, 8 INCHES X 10 INCHES, MINIMUM; AND THREE SAMPLES OF EACH TYPE OF CARPET EDGE STRIP, THREE INCHES MINIMUM;
2. SUBMIT SEAMING DIAGRAM PRIOR TO INSTALLATION.

D. WARRANTY: FURNISH MANUFACTURER'S STANDARD 5-YEAR WARRANTY AGAINST WEAR AND DETERIORATION.

E. MATERIALS:
1. CARPET: AS LISTED ON THE MATERIALS AND FINISH LEGEND.
2. ADHESIVES:
   A. USE ADHESIVES AS APPROVED BY THE CARPET MANUFACTURERS. WHEN NONE IS RECOMMENDED, USE ADHESIVES AS RECOMMENDED BY ONE OF THE FOLLOWING ADHESIVE MANUFACTURERS FOR THE APPLICATION:
      1) ROBERTS, A QEP COMPANY (HENDERSON, NV; 800-423-6545.
      2) PARA-CHEM (SIMPSONVILLE SC; 864-967-7691)
      3) WF TAYLOR (FONTANA CA; 800-397-4583)
   B. ADHESIVES SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ASTM D5116, AND SHALL HAVE CRI/IAQ "GREENLABEL."
3. LATEX UNDERLAYMENT: PORTLAND CEMENT/LATEX PATCHING AND LEVELING COMPOUND; ONE OF THE FOLLOWING, OR AS OTHERWISE RECOMMENDED BY THE FLOORING ADHESIVE MANUFACTURER.
   A. DEPENDABLE CHEMICAL COMPANY, INC. (HTTP://WWW.FLOORPREP.COM/TROWEL.HTM), "DEPENDABLE SKIMCRETE."
   B. THE W.W. HENRY COMPANY "#345 MILKLESS FLOORING UNDERLAYMENT POWDER."
4. EDGE STRIPS: VINYL REDUCER STRIPS; SIZE AND CONFIGURATION AS APPROPRIATE FOR CONDITIONS; COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD LINE.

F. PREPARATION:
1. CLEAN FLOORS OF DUST, DIRT, SOLVENTS, OIL, GREASE, PAINT, PLASTER, AND OTHER SUBSTANCES WHICH WOULD BE DETRIMENTAL TO THE PROPER PERFORMANCE OF ADHESIVE AND CARPET.
2. FILL LOW SPOTS AND CRACKS OVER 1/8 INCH IN WIDTH WITH LATEX UNDERLAYMENT.

G. INSTALLATION:
1. CARPET INSTALLATION SHALL BE TIGHT AND FLAT TO THE SUBFLOOR, SECURELY BONDED IN POSITION, AND SHALL PRESENT A UNIFORM APPEARANCE. PROVIDE COLOR, PATTERN, AND TEXTURE MATCH WITHIN EACH AREA. SEAMS SHALL BE STRONG, TIGHTLY BUTTED, AND FLAT.
2. INSTALL CARPETS IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
3. CARPET SHALL BE GLUE MOUNTED.
4. VERIFY MATCHING OF CARPET PRIOR TO CUTTING AND ENSURE THAT THERE IS NO VISIBLE VARIATION BETWEEN DYE LOTS.
5. CUT CARPET, WHERE REQUIRED IN A MANNER TO ALLOW PROPER SEAM AND PATTERN MATCH. ENSURE CUTS ARE STRAIGHT AND TRUE AND UNFRAYED.
6. MAKE SEAMS STRAIGHT AND UNIFORM.
7. SEAMING SHALL BE BY HAND SEWING OR WITH HOT MELT TAPE METHODS.
8. DO NOT CHANGE RUN OF PILE IN ANY ONE ROOM.
9. ENSURE MONOLITHIC COLOR, PATTERN AND TEXTURE MATCH WITHIN EACH DISTINCT ROOM.
10. INSTALL EDGING STRIPS WHERE CARPET TERMINATES AT OTHER FLOOR COVERINGS. USE FULL LENGTH PIECES ONLY. BUTT TIGHT TO VERTICAL SURFACES. WHERE SPLICING CANNOT BE AVOIDED, BUTT ENDS TIGHT, FLUSH, AND ACCURATELY ALIGNED.

H. REMNANTS: UPON COMPLETION OF THE INSTALLATION, CONTACT THE ARCHITECT FOR SELECTION OF CARPET REMAINING AFTER TRIMMING. CAREFULLY WRAP AND MARK SEPARATELY THE SELECTED REMNANTS. REMOVE AND DISPOSE OF REMAINDER AT A LEGAL OFF-SITE LOCATION.

I. CLEANUP:
1. THE PREMISES SHALL BE KEPT FREE FROM UNNECESSARY ACCUMULATION OF TOOLS, EQUIPMENT AND SURPLUS MATERIALS DURING THE PROGRESS OF THE WORK.
2. REMOVE THREADS WITH SHARP SCISSORS. REMOVE SPOTS WITH MANUFACTURER'S RECOMMENDED SPOT REMOVER.
3. THOROUGHLY POWER VACUUM ENTIRE SURFACE USING EQUIPMENT WITH MOTOR DRIVEN BRUSHES.

097736 FRP WALL PANELS

A. SECTION INCLUDES: FIBERGLASS REINFORCED POLYESTER (FRP) WALL PANEL SYSTEM.

B. APPROVED MANUFACTURERS:

DIV. 9 - FINISHES - cont.

1. CRANE KEMLITE, JOLIET IL.
2. LASCO PANEL PRODUCTS, FLORENEE, KY.
3. SEQUENTIA INCORPORATED, STRONGSVILLE, OH.

C. MATERIALS:
1. FIBERGLASS REINFORCED POLYESTER PANEL:
   A. DESCRIPTION: COMPOSITE PANEL CONSISTING OF UNIFORM FIBERGLASS GLASS FIBERS EMBEDDED IN ORGANIC RESIN, AND CURED UNDER HEAT AND PRESSURE.
   B. FIRE RATING: CLASS A FIRE RATING.
   C. THICKNESS: 0.09 INCH.
   D. COLOR: MANUFACTURER'S STANDARD "WHITE."
   E. TEXTURE: EMBOSSED TEXTURE.
2. ADHESIVE: AS RECOMMENDED BY THE PANEL MANUFACTURER FOR THE SUBSTRATE INDICATED.
3. SEALANT: MANUFACTURER'S STANDARD SILICONE SEALANT; USDA APPROVED INSTALLATION.
4. TRIM MOLDINGS: MANUFACTURER'S STANDARD; COLOR TO MATCH PANELS.

D. PREPARATION:
1. COORDINATE INSTALLATION WITH THE INSTALLERS OF ADJACENT AND INTEGRAL CONSTRUCTION TO ALLOW FOR INSTALLATION OF FRP PANELS PRIOR TO THE INSTALLATION OF ESCUTCHEONS, COVER PLATES, LOUVER FLANGES, AND OTHER COMPONENTS TO BE INSTALLED OVER OR THROUGH FRP PANELS.

E. INSTALLATION:
1. ADHESIVELY BOND PANELS IN ACCORDANCE WITH THE PANEL MANUFACTURER'S RECOMMENDATIONS.
2. ACCURATELY CUT AND FIT PANELS AROUND OBSTRUCTIONS; SCRIBE FIT AT EDGES. ALLOW SUFFICIENT SPACE TO SEAL JOINTS WITH SEALANT.
3. DO NOT INSTALL PANELS WITH EDGE OR SURFACE DAMAGE. REPLACE WITH NEW UNDAMAGED MATERIAL, ALL PANELS WHICH BECOME CHIPPED OR DAMAGED PRIOR TO FINAL ACCEPTANCE.
4. PROVIDE J MOLDING AT ALL EXPOSED EDGES. PROVIDE H MOLDING AT ALL VERTICAL BUTT JOINTS. H MOLDINGS SHALL NOT BE RUN BEHIND BASE FINISH MATERIAL. PROVIDE TRIM MOLDINGS AT INSIDE AND OUTSIDE CORNERS.
5. SEAL ALL JOINTS BETWEEN PANELS AND MOLDINGS, AND BETWEEN FRP SYSTEM AND ADJACENT CONSTRUCTION.
6. OMIT FRP PANEL BEHIND ADHESIVELY MOUNTED CORNER GUARDS.

098100 ACOUSTICAL INSULATION AND SEALANTS

A. MATERIALS:
1. ACOUSTIC INSULATION: ASTM C665, TYPE I; UNFACED GLASS FIBER BATTS, BLANKETS, OR ROLLS; MINIMUM FIRE HAZARD CLASSIFICATION RATING OF 25/50 PER ASTM E84; MINIMUM 3-INCHES THICK, UNLESS REQUIRED OTHERWISE TO MEET THE STC REQUIREMENTS INDICATED OR SPECIFIED; WIDTHS TO FRICTION-FIT BETWEEN STUDS, WHERE INDICATED FOR INSTALLATION IN STUD WALLS.
2. ACOUSTICAL SEALANT: NON-HARDENING, NON-SKINNING, FOR USE IN CONJUNCTION WITH GYPSUM BOARD; SIMILAR TO USG "ACOUSTICAL SEALANT."
3. ACCESSORIES: FURNISH OTHER ACCESSORIES SUCH AS FASTENERS AND RETAINERS, NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR A COMPLETE INSTALLATION.

B. INSTALLATION:
1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AND AS INDICATED.
2. INSTALL INSULATION WITHOUT GAPS OR VOIDS.
3. TRIM INSULATION NEATLY TO FIT SPACES. USE INSULATION MATERIALS FREE OF DAMAGE.
4. SEALANT:
   A. INSTALL ACOUSTICAL SEALANT AROUND PERIMETER OF ALL ACOUSTICALLY INSULATED PARTITIONS; ONE CONTINUOUS BEAD AT EACH SIDE OF FRAMING MEMBER INTERFACE WITH SUBSTRATE.
   B. SEAL ALL PENETRATIONS THROUGH ACOUSTICAL ASSEMBLIES, EXCEPT FOR PENETRATIONS IN FIRE RATED CONSTRUCTION TO RECEIVE FIRESTOPPING.

099000 PAINTING

A. SECTION INCLUDES:
1. APPLICATION OF OWNER FURNISHED PAINT SYSTEMS.
2. CONTRACTOR PROVIDED FIELD APPLIED PAINT SYSTEMS.

B. RELATED SECTIONS:
1. 05505 - ARCHITECTURAL STEEL: SHOP FINISHED CANOPY FRAMING.
2. 107313 - FABRIC AWNINGS: SHOP FINISHED AWNING FRAMING.

C. SUBMITTALS:
1. SUBMIT A LIST OF EACH PAINT SYSTEM TO BE USED IN THE WORK.
2. SUBMIT A MINIMUM OF 3 EACH 8 X 10 INCH SAMPLE OF EACH PAINT COLOR AND SHEEN PROPOSED FOR THE WORK.

D. QUALITY ASSURANCE:
1. PAINT COATINGS SHALL BE FREE OF DUST, DIRT, FLOW LINES, STREAKS, SAGS, BLISTERS, PINHOLES, RUNS, OR OTHER SURFACE IMPERFECTIONS.
2. IN ADDITION TO THE COATS SPECIFIED, PROVIDE ADDITIONAL COATS AS REQUIRED TO OBTAIN ADEQUATE HIDE.

E. MATERIALS:
1. OWNER FURNISHED PAINTS: AS LISTED IN THE MATERIALS AND FINISH LEGEND.
2. CONTRACTOR PROVIDED PAINTS: AS LISTED IN THE MATERIALS AND FINISH LEGEND.
   A. "ECO SPEC" N-215 PROFESSIONAL GRADE BY BENJAMIN MOORE PAINT COMPANY. NO SUBSTITUTIONS ALLOWED.
3. MATERIALS SHALL BE VOC COMPLIANT.

F. PROTECTION:
1. ADEQUATELY PROTECT SURFACES NOT TO BE PAINTED, FROM SPILLS, DRIPS, OVER PAINTING, AND OTHER DAMAGE CAUSED BY THIS WORK. INCLUDE SURFACES WITHIN THE PAINT STORAGE AND PREPARATION AREAS.
2. HARDWARE AND MISCELLANEOUS ITEMS:
   A. REMOVE ELECTRICAL OUTLET AND SWITCH PLATES, MECHANICAL DIFFUSERS, ESCUTCHEONS, SURFACE HARDWARE,AND FITTINGS PRIOR TO STARTING WORK.
   B. STORE, CLEAN AND REINSTALL THESE ITEMS UPON COMPLETION OF WORK IN EACH AREA. USE MATERIALS AND TECHNIQUES AS NECESSARY TO PREVENT DAMAGE TO FINISHES ON SUCH ITEMS.

G. SURFACE PREPARATION:
1. PREPARE SURFACES BY REMOVING ALL DIRT, DUST, GREASE, OIL, MOISTURE, AND OTHER CONTAMINANTS WHICH WILL IMPAIR THE PROPER ADHESION OF THE FINISH.
2. FERROUS METAL SHOP PRIMED UNDER OTHER SECTIONS: SOLVENT CLEAN PREVIOUSLY PRIMED SURFACES TO REMOVE OIL AND GREASE. REMOVE LOOSE RUST, BLISTERED AND PEELING PAINT TO BARE METAL BY SCRAPING,SANDING, AND WIRE BRUSHING IN ACCORDANCE WITH SSPC_SP2 AND SSPC_SP3. IMMEDIATELY APPLY TOUCH UP PRIME DAMAGED OR ABRADED SURFACES. LIGHTLY SAND ALL SHOP PRIME PAINTED SURFACES TO RECEIVE PAINT FINISH.
3. GALVANIZED FERROUS METAL: SOLVENT CLEAN IN ACCORDANCE WITH SSPC_SP1. MECHANICALLY ROUGHEN SURFACE WITH AN ABRASIVE PAD AS NECESSARY FOR PROPER PAINT ADHESION.
4. UNPRIMED FERROUS METAL:
   A. SOLVENT CLEAN IN ACCORDANCE WITH SSPC SP-1.
   B. COMMERCIAL BLAST PER SSPC SP6.
5. ALUMINUM: REMOVE SURFACE C

DIVISION 9 - FINISHES - cont.

7. WOOD - TRANSPARENT FINISH: FILL ALL EXPOSED FINISH NAIL HOLES AND CRACKS WITH MATCHING COLOR FILLER AFTER PRIME COAT IS APPLIED. SAND FILLER SMOOTH AND LEVEL WITH ADJACENT SURFACES.
8. GYPSUM BOARD: REMOVE ALL LIGHT DUST AND DIRT.
9. EXISTING FINISHED SURFACES TO BE REPAINTED:
   a. REMOVE LOOSE, BLISTERED, SCALED, OR CRAZED FINISHES TO BARE SUBSTRATE; FEATHER NEW WORK INTO EXISTING WORK. PREPARE SURFACES TO THE NEAREST BREAK LINE IF NECESSARY TO BLEND NEW FINISHES WITH OLD FINISHES.
   b. WASH AND RINSE SURFACES WITH TRISODIUM PHOSPHATE AND WATER OR OTHER SOLUTION REQUIRED TO REMOVE REMAINING FILM, WAX, OIL, GREASE, SMOKE OR FOREIGN MATTER WHICH WILL IMPAIR BOND, OR CAUSE BLEED THROUGH, OF NEWLY APPLIED FINISHES.
   c. LIGHTLY SAND, OR APPLY A LIQUID DEGLOSSER ON EXISTING SEMI-GLOSS AND HIGH-GLOSS FINISHES BEFORE REFINISHING.

H. SPECIAL APPLICATION REQUIREMENTS:
1. UNLESS SPECIFIED OR INDICATED OTHERWISE, FOLLOW PAINT MANUFACTURER'S LABEL DIRECTIONS FOR GENERAL APPLICATION PROCEDURES AND COVERAGE RATES.
2. DO NOT APPLY FINISHES ON SURFACES THAT ARE NOT SUFFICIENTLY DRY. MAKE SURE EACH COAT OF FINISH IS DRY AND HARD BEFORE A FOLLOWING COAT IS APPLIED UNLESS THE MANUFACTURER'S DIRECTIONS STATE OTHERWISE.
3. TINT FILLER TO MATCH STAIN WHEN CLEAR FINISHES ARE SPECIFIED; WORK FILLER WELL INTO GRAIN AND, BEFORE IT HAS SET, WORKING PERPENDICULARLY TO THE GRAIN, WIPE THE EXCESS FROM THE SURFACE.
4. OPAQUE FINISHES:
   a. APPLY NUMBER OF COATS SCHEDULED FOR EACH APPLICATION, EXCEPT THAT ADDITIONAL FINISH COATS SHALL BE APPLIED AS NECESSARY FOR COMPLETE HIDING OF SUBSTRATE COLORS.
   b. APPLY PRIMER COATS UN-TINTED. WHERE MORE THAN ONE COAT OF PAINT IS REQUIRED, TINT EACH SUCCEEDING COAT UP TO THE FINAL COAT SIMILAR IN TINT, BUT SLIGHTLY LIGHTER IN VALUE (SHADE).
5. ROLLERS FOR APPLICATION AND BACKROLLING OF LATEX PAINTS SHALL HAVE A NAP OF 3/8 INCH OR LESS.
6. WHERE ROLLER TEXTURE IS SCHEDULED FOR APPLICATION TO GYPSUM BOARD SURFACES, FINISH COATS MAY BE ROLLER-APPLIED, OR SPRAY APPLIED AND BACKROLLED AT CONTRACTOR'S OPTION.
7. SEMI GLOSS FINISH ON V-GROOVE WALL PANELING, COLUMNS AND TRIM:
   a. BRUSHES: PURDY 4 INCH NYLON-SWAN AND PURDY 3.5 INCH NYLON -SWAN.
   b. BRUSH STROKES: FULL LENGTH WITH NO VISUAL OVERLAPPING OF BRUSH STROKES IN FINAL FINISH. MIX XIM INTO PAINT PER MANUFACTURER 5/32 S RECOMMENDATION.
8. FACTORY PRIMED SURFACES: APPLY SCHEDULED FINISH SYSTEM, LESS PRIMER COAT, EXCEPT AS NECESSARY TO FOR PATCHING DAMAGE TO FACTORY PRIME COATING.

I. SYSTEMS:
1. GYPSUM BOARD:
   a. LATEX SYSTEM: AS INDICATED ON THE FINISH SCHEDULE.
2. INTERIOR WOOD SURFACES:
   a. WOOD - OPAQUE: AS INDICATED ON THE FINISH SCHEDULE.
   b. WOOD - TRANSPARENT FINISH: AS INDICATED ON THE FINISH SCHEDULE.

099733 CONCRETE SEALER

A. SECTION INCLUDES: SEALING OF CONCRETE FLOOR SLABS EXPOSED TO VIEW IN THE FINISHED WORK.

B. ACRYLIC SEALER: WATER EMULSION ACRYLIC, VOC COMPLIANT, ONE OF THE FOLLOWING:
1. "KURE-N-SEAL WB" BY SONNEBORN DIVISION OF CHEMREX INC., SHAKOPEE, MN (800/433-9517).
2. SEALTIGHT VOCOMP-25 BY W. R. MEADOWS, INC., ELGIN, IL (800/342-5976).
3. EUCLID CHEMICAL COMPANY "FLOOR SEAL VOX"; HIGH SOLIDS WATER-BASED ACRYLIC SEALER.

C. CLEAN SURFACES TO RECEIVE SEALER, USING MANUFACTURER'S RECOMMENDED CLEANING COMPOUNDS AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

D. MASK OR OTHERWISE PROTECT ADJACENT SURFACES.

E. APPLY CONCRETE FLOOR SEALER TO ALL INTERIOR CONCRETE FLOOR SLABS SCHEDULED TO REMAIN
EXPOSED IN THE FINISHED WORK.

F. ROLLER OR SPRAY-APPLY SEALER IN ACCORDANCE WITH THE MANUFACTURER'S APPLICATION INSTRUCTIONS. APPLY TWO COATS.

DIVISION 10 - SPECIALTIES

102613 CORNER GUARDS

A. SUBMITTALS:
1. PRODUCT DATA.

B. CLEAR PLASTIC CORNER GUARDS (PCG): "CGU-12" BY PAWLING (800-431-3456), OR APPROVED; PVC CORNER GUARD; "(301) LINEN WHITE" COLOR; 4'-0" LONG; FURNISH ADHESIVE FOR INSTALLATION.

C. INSTALL CORNER GUARDS TIGHT TO WALL SURFACES. EXTEND FROM TOP OF WALL BASE.

102813 TOILET & EMPLOYEE BREAK AREA ACCESSORIES

A. PROVIDE THE FOLLOWING ACCESSORIES AS MANUFACTURED BY BOBRICK WASHROOM EQUIPMENT
COMPANY. NO SUBSTITUTIONS ALLOWED.

B. ACCESSORIES:
1. GRAB BARS (GB): BOBRICK B-6806 SERIES, SIZE AND CONFIGURATION AS INDICATED.
2. SANITARY NAPKIN DISPOSALS (SND): B-4353 (RECESSED SINGLE UNIT);PROVIDE ONE IN EACH RESTROOM.
3. RECESSED TOILET PAPER DISPENSER (TPD): MULTI-ROLL B-4388.
4. RECESSED HAND DRYER (HD): B-3725.
5. SEAT COVER DISPENSER (SCD): B-4221.
6. SURFACE MOUNTED SOAP DISPENSER: B-4112.
7. BABY CHANGING STATION: KOALA CORPORATION (888-733-3456); KB110-SSRE.

A. SUBMITTALS:
1. PRODUCT DATA.

B. EXTINGUISHERS:
1. MULTI-PURPOSE DRY CHEMICAL TYPE (FE): HEAVY DUTY DOT STEEL TANK; UL RATING 2A_10B:C, 5 LB CAPACITY, WITH PRESSURE GAGE; RED ENAMEL FINISH; METAL VALVES AND SIPHON TUBES.

C. CABINETS:
1. CABINETS SHALL BE RECESSED, EXCEPT PROVIDE SEMI-RECESSED WHERE REQUIRED TO ACCOMMODATE WALL DEPTH.
2. TRIM: FORMED SHEET STEEL, MINIMUM 20 GAGE; 1-1/4 TO 1-3/4 INCHES WIDE FACE.
3. DOOR: FORMED SHEET STEEL, MINIMUM 20 GAGE; REINFORCED FOR FLATNESS AND RIGIDITY; SATIN ZINC OR ALUMINUM PULL, ROLLER CATCH, AND CONTINUOUS HINGE; CLEAR GLASS VISION PANEL.
4. CABINET FINISHES:
   a. CABINET TRIM AND DOOR: MANUFACTURER'S STANDARD PRIMED FINISH TO RECEIVE PAINT COATINGS AS SPECIFIED IN SECTION 099000.
   b. CABINET INTERIOR: MANUFACTURER'S STANDARD WHITE EPOXY OR WHITE BAKED ENAMEL.

D. ACCESSORIES:
1. FIRE EXTINGUISHER BRACKETS: MANUFACTURER'S STANDARD J-TYPE. PROVIDE AT FIRE EXTINGUISHER LOCATIONS WHERE NO CABINET IS INDICATED.

DIVISION 10 - SPECIALTIES - cont.

E. INSTALLATION:
1. INSTALL CABINETS PLUMB AND LEVEL IN WALL OPENINGS IN LOCATIONS AS REQUIRED BY THE FIRE DEPARTMENT. UNLESS OTHERWISE INDICATED, INSTALL 30 INCHES FROM FINISHED FLOOR TO INSIDE BOTTOM OF CABINET.
2. SECURE RIGIDLY IN PLACE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. WHEN RECESSED CABINETS ARE INSTALLED IN FIRE RATED WALLS, MAINTAIN FIRE RESISTANCE RATING CONTINUOUSLY BEHIND THE CABINET.

DIVISION 11 - EQUIPMENT

NOT USED

DIVISION 12 - FURNISHINGS

A. SUMMARY: FABRICATION AND INSTALLATION OF OWNER FURNISHED SOLID SURFACE COUNTERTOPS.

B. SUBMITTALS:
1. SHOP DRAWINGS: INDICATE MATERIALS, FASTENING METHODS, RELEVANT FIELD DIMENSIONS, AND RELATIONSHIP TO ADJOINING CONSTRUCTION. INDICATE SUPPORT FRAMING.

C. QUALITY CONTROL:
1. FABRICATOR QUALIFICATIONS: CERTIFIED BY THE SOLID SURFACING MATERIALS MANUFACTURER.

D. GUARANTEE: FURNISH MANUFACTURER'S STANDARD 10 YEAR GUARANTEE COVERING DEFECTS IN MATERIALS AND WORKMANSHIP.

F. MATERIALS:
1. OWNER FURNISHED SOLID SURFACING: "CORIAN" BY E.I. DUPONT DE NEMOURS & CO., WILMINGTON DE.; COLORS AS SCHEDULED ON THE DRAWINGS; 1/2 INCH THICK MATERIAL.

G. FABRICATION
1. FABRICATE SOLID SURFACING TO THE CONFIGURATIONS INDICATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. FABRICATE COUNTERTOP TO RECEIVE UNDERCOUNTER MOUNTED SINK TO BE PROVIDED BY THE PLUMBING SUBCONTRACTOR. PROVIDE UNIFORM CLEARANCE AT PERIMETER OF THE SINK OPENING.
3. FABRICATE SUPPORT FRAMING AND SUBSTRATE CONSTRUCTION TO RECEIVE SOLID SURFACING.

E. INSTALLATION:
1. INSTALL SOLID SURFACING FABRICATIONS FIRMLY IN POSITION AND IN PROPER ALIGNMENT WITH ADJACENT CONSTRUCTION.
2. SEAL JOINTS BETWEEN SOLID SURFACING AND ADJACENT CONSTRUCTION WITH COLOR MATCHING SEALANT.

123661 SOLID SURFACING

107313 FABRIC AWNINGS

104416 FIRE EXTINGUISHERS AND CABINETS

1. FABRIC: GLEN RAVEN MILLS INC. (CUSTOM FABRICS DIVISION, GLEN RAVEN, NC) "SUNBRELLA FIRESIST"; WOVEN SOLUTION-DYED MODACRYLIC FABRIC, FIRE RETARDANT FABRIC; MILDEW RESISTANT; UV RESISTANT; FADE RESISTANT; COLORS AS INDICATED ON THE DRAWINGS.

124813 CARPET ENTRY MATS

A. SUMMARY
1. SECTION INCLUDES:
   a. CARPET ENTRY MATS.
   b. PERIMETER ANGLE FRAME.
2. RELATED SECTIONS
   a. 03547 _ CEMENTITIOUS UNDERLAYMENT: UNDERLAYMENT AND TAPERED FILL.

B. SUBMITTALS
1. MAKE SUBMITTALS IN ACCORDANCE WITH SECTION 013300.
2. SHOP DRAWINGS: INDICATE PERIMETER ANGLE FRAME SIZE AND LOCATIONS, MAT JOINT LOCATIONS, AND RELEVANT DETAILS OF ADJACENT CONSTRUCTION. INDICATE METHOD FOR FASTENING FRAME TO SUBSTRATE.

C. SUBCONTRACTOR GUARANTEE
1. FURNISH SUBCONTRACTOR GUARANTEES IN ACCORDANCE WITH SECTION 017700.

D. MATS AND ACCESSORIES
1. APPROVED CARPET ENTRY MATS:
   a. AMERICAN FLOOR PRODUCTS COMPANY ' VINA-COIR', MODEL CM-1701
   b. PAWLING RECESSED COCOA-MATS, MODEL EM-300
   c. USCOA, VINA-COIR
2. PERIMETER ANGLE FRAME: EXTRUDED ALUMINUM PERIMETER FRAME; AS INDICATED ON THE DRAWINGS; BRUSHED ALUMINUM ANODIZED FINISH; PRE-DRILL FRAME TO RECEIVE ANCHORS FOR INSTALLATION; FRAME SECTIONS SHALL BE IN CONTINUOUS LENGTHS.
3. MISCELLANEOUS ACCESSORIES: FURNISH FASTENERS, SLEEVE ANCHORS, AND OTHER MATERIALS AS NECESSARY FOR A COMPLETE INSTALLATION.

E. EXAMINATION
1. VERIFY THAT SUBSTRATE IS PROPERLY LEVEL, CLEAN, AND READY FOR INSTALLATION OF ENTRY MAT FRAME.

F. INSTALLATION
1. MECHANICALLY FASTEN ENTRY MAT FRAME SECTIONS ACCURATELY INTO POSITIONS AS INDICATED. CORNER JOINTS SHALL BE MITERED AND TIGHTLY BUTTED. FOR EACH ANGLE FRAME SECTION, PLACE FASTENERS 2 INCHES FROM EACH END AND AT MAXIMUM 24 INCHES ON CENTER ALONG THE LENGTH.
2. COORDINATE INSTALLATION OF SLAB LEVELING MATERIAL WITHIN PERIMETER FRAME AREA AS NECESSARY TO ALIGN THE CRUSH LINE OF THE ENTRY MAT WITH MAT FRAME.
3. INSTALL CARPET ENTRY MATS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PLACE CARPET ENTRY MAT TIGHT TO THE SUBSTRATE WITH A UNIFORM APPEARANCE FREE OF WRINKLES. TRIM AT PERIMETER EDGES FOR TIGHT BUTT FIT TO FRAME.

DIVISION 12 - FURNISHINGS- cont.

DIVISION 13 - SPECIAL CONSTRUCTION

NOT USED

DIVISION 14 - CONVEYNING SYSTEMS

NOT USED

DIVISION 15 - PLUMBING

SEE PLUMBING SPECIFICATIONS ON THE DRAWINGS

DIVISION 16 - ELECTRICAL

SEE ELECTRICAL SPECIFICATIONS ON THE DRAWINGS

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 zbr.global

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	01/13/22	REVISION 1

STATUS:
PERMIT

REGISTERED ARCHITECT
CERTIFICATE NO.
49829
ZACHARY B. SHIRK
Date Signed 01/13/2022
ARIZONA U.S.A.
Expires: 6/30/2024

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
SPECIFICATIONS

DATE: 1/13/22
PROJECT NO.: 33126
DRAWN: EK
SCALE: AS NOTED

SHEET NO.:
A909

SYMBOLS LEGEND

LIGHTING

SYMBOL	DESCRIPTION	SPECIFICATIONS
$	1 POLE, SINGLE THROW ROCKER SWITCH	ALL LIGHTING CONTROLS SHALL BE 20A, 120 / 277V, UNO. FINISHED AREAS: COMMERCIAL GRADE W/ WHITE NYLON COVER, UNO UNFINISHED AREAS: HEAVY DUTY, INDUSTRIAL GRADE TOGGLE SWITCH
$2	2 POLE, SINGLE THROW ROCKER SWITCH	
$3	1 POLE, DOUBLE THROW 3-WAY ROCK	
$4	2 POLE, DOUBLE THROW 4-WAY ROCKER	
$D	SLIDE DIMMER, COMMERCIAL GRADE	VERIFY LOAD SERVED, MATCH RATING AND TYPE OF LOAD
DS	DOOR FRAME SWITCH	N.O. SWITCH TO TURN ON LIGHTS WHEN DOOR IS OPENED, MNT IN FRAME
OS	SWITCH MOUNTED OCCUPANCY SENSOR	15A, 120 / 277V INFRA RED & ULTRASONIC, PUSHBUTTON OVERRIDE, MNT IN SWITCH BOX, ADJUSTABLE DELAY & DAYLIGHT SENSING, SET AT 15 MIN.
OSW	WALL/CEILING MOUNTED OCCUPANCY SENSOR	15A, 120 / 277V, INFRARED & ULTRASONIC, CEILING / WALL MOUNTED W/ ADJ, GIMBAL, 110° COVERAGE, ADJUSTABLE DELAY & DAYLIGHT SENSE
OS	CEILING MOUNTED OCCUPANCY SENSOR	15A, 120 / 277 INFRARED & ULTRASONIC, 360° (UNLESS NOTED 180°), 1000 SQ.FT, ADJUSTABLE DELAY & DAYLIGHT SENSE
PC	PHOTOCELL	AMPS / VOLTAGE / CONTACTS TO MATCH USE, SCREW CLAMP TERMINALS
TC	TIMECLOCK	24 HR, 7 DAY ASTRONOMICAL, HOLIDAY SCHEDULING
	EMERGENCY LIGHTING FIXTURE CONTROLLED BY UN-SWITCHED LEG OF AREA LIGHTING CIRCUIT	PROVIDE NORMAL POWER FROM AREA LTG CIRCUIT & EMERGENCY BACKUP FROM AN INTEGRAL 90 MIN. BATTERY PACK OR LOCAL TRANSFER SWITCH & GENERATOR BACKED LIFE SAFETY CIRCUIT
	LED EXIT SIGN W/ ARROWS AS REQUIRED	90 MIN BATTERY W/ SELF DIAGNOSTICS, EDGE LIT GLASS IN FINISHED AREA
	EXTERIOR SPOTLIGHT	PROVIDE A MINIMUM 8 IN.Ø, 12 IN. DEEP CONCRETE PIER
E	EMERGENCY ONLY	
	POLE MOUNTED LIGHT FIXTURE	PROVIDE A MINIMUM 24"Ø, 8 FT. REINFORCED CONCRETE FOUNDATION
	TRACK LIGHTING FIXTURE	

POWER

SYMBOL	DESCRIPTION	SPECIFICATIONS
	CIRCUIT WIRING	RW90 XLPE, SOFT DRAWN, STRANDED COPPER; USE SOLID #10 & SMALLER
- - - - -	UNDERGROUND CIRCUIT WIRING	T90 NYLON OR RW90 XLPE, SOFT DRAWN, STRANDED COPPER; USE SOLID
— UE —	UNDERGROUND ELECTRICAL SERVICE	UTILITY SERVICE FEEDER DUCT BANK
— OE —	OVERHEAD ELECTRICAL SERVICE	UTILITY PROVIDER, MAINTAIN EASEMENT
MH	ELECTRICAL MANHOLE	PRECAST CONCRETE, GROUNDED, STEEL LID, GRAVEL DRAIN
	UTILITY POLE	PER UTILITY PROVIDER SPECIFICATIONS
A–1	NEUTRAL, HOT, GROUND CONDUCTORS HOMERUN TO PANEL BOARD "A". CIRCUIT #1 EQUIPMENT CONNECTION POINT	PROVIDE 3 FT. MAX. FMC FROM COUPLING TO VIBRATING EQUIP. TERMINAL
	2 POLE, 3 WIRE, 125V SINGLE RECEPT.	COMMERCIAL GRADE, WHITE NYLON FACE & COVER. USE HEAVY DUTY, INDUSTRIAL GRADE IN MECHANICAL SPACE & INDUSTRIAL AREAS
	2 POLE, 3 WIRE, 125V DUPLEX RECEPT.	
IG	ISOLATED, INSULATED GROUND	DEDICATED #12 GROUND FROM PANEL TO RECEPT. GREEN W/ YELLOW STRIP
GFCI	GROUND FAULT INTERRUPTER	FEED THRU TYPE WITH INDICATOR LIGHT & RESET BUTTON
WP/WR	WEATHERPROOF WHILE IN USE ENCLOSURE	
	QUADRUPLEX RECEPTACLE	
	FLOOR MOUNTED RECEPTACLE	ALL WIRING DEVICES SHOWN IN SQUARE BOX TO BE FLOOR OR CEILING MOUNT
	SPECIAL PURPOSE RECEPTACLE	TYPE & RATINGS AS NOTED. VERIFY IF TWIST LOCK IS REQUIRED.
J	JUNCTION BOX	CAST OR SHEET METAL BOX WITH COVER
	PANEL BOARD	COPPER PH, N, G BUSSING. CONTINUOUSLY HINGED DOOR & FRONT COVER
T	TRANSFORMER	COPPER, 2 WINDING, 3-PHASE DELTA TO WYE ON PAD WITH ISOLATORS
	MOLDED CASE CIRCUIT BREAKER	INVERSE TIME THERMAL/MAGNETIC BOLT ON, ADJUSTABLE LSIG AS REQUIRED
	DRAWOUT CIRCUIT BREAK, AIR TYPE	DIGITAL TRIP UNIT, ADJUSTABLE LSIG
	THERMAL OVERLOAD	ADJUSTABLE OVERLOAD, SIZE PER MOTOR FLA
	FUSED DISCONNECT SWITCH	SEE ONE-LINE
	FUSE, HOLDER & PULLER	SEE ONE-LINE
	POTENTIAL TRANSFORMER	.5% ACCURACY, ENCLOSED
	CURRENT TRANSFORMER	TORROIDAL OR RECTANGLE WINDOW, SINGLE RATIO, POLARITY MARKS
M	METER	SEE ONE-LINE
X	MOTOR, "X" INDICATING HORSE POWER	MOTOR BY OTHERS, UNO; EC TO MAKE WIRING TERMINATIONS
$	MOTOR RATED TOGGLE SWITCH	20A, 277V, HP RATED, HEAVY DUTY, INDUSTRIAL, LOTO PROVISIONS
$M	MANUAL MOTOR STARTER	AMPS / VOLTAGE / POLES TO MATCH LOAD THERMAL OVERLOADS, LOTO
	DISCONNECT SWITCH	QUICK-MAKE / BREAK LOAD INTERRUPTER, KNIFE SWITCH, HINGED METAL ENCLOSURE, EXTERNAL OPERABLE HANDLE, LOCABLE ON OR OFF. AMPS / POLES / FUSE SIZE / NEMA RATING
	COMBINATION STARTER & DISCONNECT	PROVIDE INTEGRAL DISCONNECT FOR STARTERS, VFDS, ETC SHOWN WITH A DISCONNECT HANDLE
	MAGNETIC STARTER - FVNR U.N.O.	N.O. & N.C. AUXILIARY CONTACTS, FUSED CPT. ADJUSTABLE OVERLOAD SIZED PER MOTOR HP, REMOTE START INPUT, HOA SWITCH
	MAGNETIC CONTACTOR	20A PER POLE, 120 / 277V, HOA SWITCH, HINGED METAL ENCLOSURE
VFD	VARIABLE FREQUENCY DRIVE	RATINGS PER PLANS AND SPECIFICATIONS
GEN	GENERATION REMOTE ANNUNCIATOR	LCD DISPLAY, PUSHBUTTON CONTROLS
SPD	SURGE PROTECTION DEVICE (TVSS)	ULC 1449 TYPE 1, 20KA MIN. UNO

COMMUNICATIONS

SYMBOL	DESCRIPTION	SPECIFICATIONS
D	DATA OUTLET WALL & FLOOR MTD.	4x4 DEEP METAL BOX WITH SINGLE GANG REDUCER
V	DATA / VOICE OUTLET WALL & FLOOR MTD.	1" CONDUIT FROM BOX TO ACCESSIBLE CEILING
V	VOICE OUTLET WALL & FLOOR MTD.	INSTALL FLOOR MOUNTED DATA IN FLOORBOX OR POKE THRU
WAP	WIRELESS ACCESS POINT (ROUTER)	COORDINATE WAP REQUIREMENTS WITH OWNER
S	SPEAKER OUTLET CEILING & WALL MTD.	COORDINATE SPEAKER REQUIREMENTS WITH OWNER
V	VOLUME CONTROL	COORDINATE EXACT LOCATION WITH OWNER
B	BUZZER CHIME	COORDINATE EXACT LOCATION WITH OWNER
●	BUZZER SYSTEM PUSHBUTTON	COORDINATE EXACT LOCATION WITH OWNER
	AIPHONE SYSTEM DOOR STATION	COORDINATE EXACT LOCATION WITH OWNER
I	AIPHONE SYSTEM WALL MOUNT INTERCOM	COORDINATE EXACT LOCATION WITH OWNER

FIRE ALARM

SYMBOL	DESCRIPTION	SPECIFICATIONS
or F	AUDIO / VISUAL FIRE ALARM	ADDRESSABLE, HORN, XENON STROBE, ADJUSTABLE STROBE INTENSITY
VC	VISUAL STROBE FIRE ALARM	ADDRESSABLE, XENON, STROBE, ADJUSTABLE STROBE INTENSITY
F	MANUAL PULL STATION	ADDRESSABLE, MANUAL, SINGLE ACTION, ADA COMPLIANT ALARM
FS	FIRE ALARM SPEAKER	
or SD	AREA SMOKE DETECTOR	ADDRESSABLE, IONIZATION / PHOTOELECTRIC ADJUSTABLE SENSITIVITY
or HD	AREA HEAT DETECTOR	ADDRESSABLE, RATE OF RISE & FIXED TEMP, SPOT TYPE, LED STATUS
or DD	DUCT MOUNTED SMOKE DETECTOR	ADDRESSABLE, SAMPLING TUBE, RELAY CONTACT, LOCATE 3FT FROM FAN BEFORE BRANCHES, LED STATUS INDICATOR
FACP	FIRE ALARM PANEL	MODULAR, ADDRESSABLE, AUTOMATIC FA SYSTEM REMOTE MONITORING BATTERY BACKUP TO OPERATE FOR 24 HOURS FOLLOWED BY 5 MIN. OF ALARM, LCD DISPLAY, PUSHBUTTON CONTROLS
NAC	FIRE ALARM EXTENSION PANEL	
FAA	FIRE ALARM PANEL REMOTE ANNUNCIATOR	LCD DISPLAY, PUSHBUTTON CONTROLS
MM	MONITOR MODULE	MOUNT IN J-BOX, SOLID COVER W/ LABEL, 1/2" CONDUIT TO ACCESSIBLE CEILING
CM	CONTROL MODULE	
H	HOOD FIRE SUPPRESSION SYSTEM RELAY	
SS	SUPERVISORY SWITCH	
or TS	TAMPER SWITCH	
or WF	WATER FLOW SWITCH	PADDLE SWITCH, ACTUATED BY WATER FLOW
	MOTORIZED SMOKE FIRE DAMPER	PROVIDE 12-V POWER & FA MODULES AT DUCT
F	FIREMAN'S PHONE JACK, WALL MOUNTED	4x4 DEEP METAL BOX W/ SINGLE GANG REDUCER, 1" CONDUIT TO CEILING
AR	AREA OF REFUGE BUTTON	SPECIFIED BY ARCHITECT
CF	CEILING MOUNTED A / V FIRE ALARM	ADDRESSABLE, HORN, XENON STROBE, ADJUSTABLE STROBE INTENSITY

ABBREVIATIONS

A.	AMPERE	FACP	FIRE ALARM CONTROL PANEL	MTD.	MOUNTED
AC	ABOVE COUNTER	FLA.	FULL LOAD AMPS	MTS	MANUAL TRANSFER SWITCH
AFF.	ABOVE FINISHED FLOOR	FS	FLOW SWITCH	MV.	MEDIUM VOLTAGE
AIC.	AMP INTERRUPTING CAPACITY	FSD	FIRE SMOKE DAMPER	N.I.C.	NOT IN CONTRACT
A/V	AUDIO VISUAL	GFI.	GROUND FAULT INTERRUPTER	NTS.	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	GND.	GROUND	Ø	PHASE
BLDG.	BUILDING	HOA.	HAND-OFF-AUTO	OL	OVERLOAD
C.	CONDUIT	HP.	HORSEPOWER	OE	OVER HEAD ELECTRIC
CKT.	CIRCUIT	HPS.	HIGH PRESSURE SODIUM	P.S.	PULL STRING
CM	CONTROL MODULE	HTR.	HEATER	RECPT.	RECEPTACLE
COA.	CITY OF AUSTIN	IG	ISOLATED GROUND	RGS.	RIGID GALVANIZED STEEL
CONN.	CONNECT OR CONNECTION	J-BOX	JUNCTION BOX	SPD	SURGE PROTECTION DEVICE
CT.	CURRENT TRANSFORMER	KCM.	THOUSAND CIRCULAR MILLS	TS	TAMPER SWITCH
DIM.	DIMENSION	LOTO	LOCK OUT TAG OUT	TTB	TELEPHONE TERMINAL BOARD
EA.	EACH	LTG.	LIGHT OR LIGHTING	TVSS	TRANSIENT V. SURGE SUPPRESSER
EC	ELECTRICAL CONTRACTOR	MCB.	MAIN CIRCUIT BREAKER	TYP.	TYPICAL
EF.	EXHAUST FAN	MCC.	MOTOR CONTROL CENTER	UG.	UNDERGROUND
ELEC.	ELECTRIC,ELECTRICAL	MCP.	MOTOR CIRCUIT PROTECTOR	UNO.	UNLESS NOTED OTHERWISE
EMER.	EMERGENCY	MIN.	MINIMUM	V.	VOLTAGE
EPO	EMERGENCY POWER OFF	MH.	METAL HALIDE	WH.	WATER HEATER
EWC.	ELECTRIC WATER COOLER	MLO.	MAIN LUGS ONLY	WP.	WEATHER PROOF
		MRS.	MOTOR RATED SWITCH	WR.	WEATHER RATED
		MSB.	MAIN SWITCH BOARD	XFMR.	TRANSFORMER

FIRE ALARM GENERAL NOTES:

1. TENANT FIRE ALARM SYSTEM SHALL BE PROVIDED BY BIDDER DESIGN SUB-CONTRACTOR AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. SEE SPECIFICATIONS FOR GENERAL REQUIREMENTS.
2. FIRE ALARM CABLING SHALL BE RUN IN CONDUIT, NO EXCEPTIONS.

POWER GENERAL NOTES:

1. SECURITY ALARM, DATA AND TELEPHONE SYSTEMS SHALL BE INSTALLED BY THE TENANT AFTER CASEWORK INSTALLATION. CONDUIT, BOXES AND PULL WIRES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH SECURITY AND TELEPHONE SYSTEMS INSTALLER AT JOBSITE.
2. REFER TO MECHANICAL DRAWINGS FOR EXACT HVAC EQUIPMENT LOCATIONS AND SPECIFICATIONS. VERIFY EQUIPMENT WIRE SIZE, CONDUIT SIZES, CIRCUIT BREAKER AND DISCONNECT SIZES WITH EQUIPMENT NAMEPLATE PRIOR TO ROUGH-IN.
3. ALL CONNECTIONS TO HVAC EQUIPMENT SHALL BE MADE WITH COPPER CONDUCTORS ONLY.
4. PROVIDE FUSIBLE DISCONNECT SWITCHES OR HACR CIRCUIT BREAKERS FOR ALL HVAC EQUIPMENT. FUSE SIZES SHALL BE AS INDICATED ON EQUIPMENT NAMEPLATES. THE ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT SWITCH AND FUSE SIZES WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIAL.
5. ALL FUSES FOR THIS PROJECT SHALL BE BUSSMAN CLASS RK5 DUAL ELEMENT CURRENT LIMITING WITH AMPERAGES AS INDICATED OR REQUIRED.
6. FIRE SEAL ALL FIRE WALL PENETRATIONS FOR CONDUITS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. FIRE SEAL SHALL PROVIDE EQUAL FIRE RATING AS WALL.
7. ALL RECEPTACLE CIRCUITS UP TO 100'-0" IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. ALL RECEPTACLE CIRCUITS FROM 101'-0" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. ALL RECEPTACLE CIRCUITS 151'-0" UP TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. CIRCUITS ABOVE 251'-0" SHALL UTILIZE #6 CONDUCTORS MINIMUM.
8. DECORA OUTLETS THROUGHOUT. WHITE ON WHITE.

GENERAL NOTES:

1. CIRCUIT BREAKER TYPE PANELBOARDS WITH BOLT-ON TYPE CIRCUIT BREAKERS WITH ADEQUATE INTERRUPTING CAPACITY SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. THE GROUNDING SYSTEM WITHIN THE PREMISE SHALL BE CONTINUOUS FROM THE SYSTEM GROUND IN THE METER ROOM. THE SECONDARY OF THE TENANT TRANSFORMERS SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C.
3. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL CODES. ALL POWER WIRE ON THE PREMISE SHALL BE INSTALLED IN CONDUIT. CONDUCTOR INSULATION SHALL BE THW, THHN OR THWN. NO ROMEX CABLES ARE ALLOWED.
4. ALL ELECTRICAL MATERIALS SHALL BE NEW AND UNUSED AND SHALL INCLUDE ALL OPTIONAL ITEMS REQUIRED FOR A COMPLETE INSTALLATION. ALL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.
5. BX, ROMEX, ARMORED CABLING, ETC. SHALL NOT BE ALLOWED.
6. WHEN SPACE ABOVE CEILING IS INDICATED TO BE A RETURN AIR PLENUM, PLENUM NONCOMBUSTIBLE CONSTRUCTION MATERIALS TO BE USED ABOVE CEILING, INCLUDING EXISTING AND NEW WIRING EXCEPT INSULATION OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT FINISH RATING. LOW VOLTAGE OR LIMITED POWER WIRING MAY BE LABELED PLENUM RATED TYPE.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SEISMIC SUPPORT (LATERAL AND HORIZONTAL) FOR ALL TRACK LIGHTING AND LIGHT FIXTURES PER THE JURISDICTIONAL REQUIREMENTS.
8. SEE DETAIL #1 ON SHEET E-201 FOR DATA/VOICE CONDUIT REQUIREMENTS.
9. UON ALL OUTLET HEIGHT DIMENSIONS SHALL BE TO CENTER OF DEVICE, MEASURED FROM FINISHED FLOOR.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE PULL STRING IN ALL CONDUITS.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR ALL HVAC EQUIPMENT AS REQUIRED BY MECHANICAL CONTRACTOR.
12. SALES AREA UTILIZES "OPEN TO STRUCTURE" CONCEPT WITH NO CEILING INSTALLED . MC CABLE AND FLEXIBLE CABLING SHALL NOT BE ALLOWED AT ANY AREAS THAT WILL BE WITHIN PUBLIC VIEW. ALL EXPOSED CONDUIT AND BRANCH CIRCUITING SHALL BE NEATLY INSTALLED USING EMT. CONDUIT RUNS SHALL BE GROUPED TOGETHER, RUN PARALLEL TO GRID LINES, AND RACKED ON TRAPEZE W/THREADED ROD ATTACHED TO STRUCTURE. HORIZONTAL SPACING BETWEEN CONDUITS ON RACK SHALL BE UNIFORM AND CONSISTENT THROUGHOUT.
13. FOR RECEPTACLE LOCATIONS THAT REQUIRE SURFACE MOUNTING, PROVIDE STEEL, RAISED COVER.
14. FOR DEVICE MOUNTING HEIGHT REQUIREMENTS, SEE DETAIL #2, SHEET E-202.
15. AT SALES FLOOR, VERTICAL BRANCH CIRCUIT DROPS SHALL BE NEATLY CONCEALED WHERE POSSIBLE.
16. ELECTRICAL CONTRACTOR SHALL OBTAIN MALL CONSTRUCTION CRITERIA MANUAL AND COMPLY WITH ALL REQUIREMENTS.
17. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNERS' SECURITY VENDOR AND PROVIDE RACEWAYS AS REQUIRED.
18. ALL WHIPS FOR CASEWORK ARE TO BE FULLY ENCASED INSIDE WALLS. ENTIRE INSTALLATION SHALL MEET ALL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL EQUIPMENT SHALL BEAR UL LABELS.
19. ALL ELECTRICAL AND FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT.
20. ALL JUNCTION BOXES SHALL BE READILY ACCESSIBLE.

SECURITY SYSTEM GENERAL NOTES:

1. THE SECURITY SYSTEM CABLING SHALL BE PROVIDED BY THE OWNER'S VENDOR. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THIS VENDOR AND PROVIDE SLEEVES AND/OR PENETRATIONS THROUGH FIRE RATED CONSTRUCTION OR FLOORS AS REQUIRED FOR THE CABLING INSTALLATION.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SECURITY SYSTEM RACEWAY AS SHOWN ON THE PLANS AND AS REQUIRED BY THE JURISDICTION AND LANDLORD. THE ELECTRICAL CONTRACTOR SHALL CLEARLY LABEL WITH A SHARPIE MARKER, THE JUNCTION BOXES AND CONDUITS FOR THE SECURITY VENDOR. EACH CONDUIT SHALL BE CLEARLY MARKED AT THE STUB LOCATION WITH "SEC", AND EACH JUNCTION BOX SHALL BE MARKED ON THE INTERIOR OF THE BOX AS "SEC"
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH THE JURISDICTION AND LANDLORD IF LOW VOLTAGE CABLING IS REQUIRED TO BE INSTALLED IN CONDUIT, AND SHALL PROVIDE CONDUIT SYSTEM IF REQUIRED.

DATA/VOICE SYSTEM GENERAL NOTES:

1. THE DATA/VOICE SYSTEM CABLING (EXCEPT FOR SOUND SYSTEM VOLUME CONTROL AND TRAFFIC COUNTER) SHALL BE PROVIDED BY THE OWNER'S VENDOR. THE TENANT ELECTRICAL CONTRACTOR SHALL PROVIDE THE CABLING FOR THE VOLUME CONTROL AND TRAFFIC COUNTER.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OUTLET BOXES AND RACEWAY SYSTEM AS SHOWN ON THE PLANS AND AS REQUIRED BY THE JURISDICTION AND LANDLORD.
3. THE DATA/VOICE SYSTEM CABLING HAS A LENGTH LIMITATION OF 290 LINEAR FEET. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A RACEWAY SYSTEM, IN ACCORDANCE WITH THE REQUIREMENTS SHOWN ON THE PLANS, SUCH THAT THE LINEAR FOOTAGE FROM EACH OUTLET TO THE TTB DOES NOT EXCEED 290 LINEAR FEET. IN THE EVENT THIS IN NOT POSSIBLE, REPORT BACK TO GENERAL CONTRACTOR AND OWNER FOR DIRECTION.
4. THE OVERHEAD RACEWAY SYSTEM SHALL BE RUN PARALLEL WITH THE BUILDING GRID LINES. IN THE EVENT THERE ARE CABLE LENGTH ISSUES, REPORT BACK TO THE GENERAL CONTRACTOR PRIOR TO RACEWAY INSTALLATION FOR DIRECTION.
5. THE ELECTRICAL CONTRACTOR SHALL CLEARLY LABEL WITH A SHARPIE MARKER THE OUTLET BOXES AND CONDUIT FOR THE DATA/VOICE VENDOR.

DRAWING SCHEDULE

NUMBER	TITLE
E-001	ELECTRICAL LEGENDS AND NOTES
E-002	LIGHT FIXTURE SCHEDULE
ED-110	POWER DEMOLITION PLANS
ED-130	LIGHTING DEMOLITION PLANS
E-110	POWER PLANS
E-130	LIGHTING PLANS
E-201	ELECTRICAL DETAILS
E-202	ELECTRICAL DETAILS
E-401	ONE-LINE RISER & PANEL SCHEDULES
E-901	ELECTRICAL SPECIFICATIONS
E-902	ELECTRICAL SPECIFICATIONS

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERY BARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Digitally Signed
Michael Gath, P.E. (AZ)
2022.01.14 13:17:22-06'00'

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
ELECTRICAL LEGENDS AND NOTES

DATE: 01/13/22
PROJECT NO : 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
E-001

LIGHTING GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE AND TRACK LOCATIONS.
2. ALL NIGHT LIGHTS AND EMERGENCY LIGHTS SHALL BE UNSWITCHED.
3. 20A, 120V RECEPTACLE AND LIGHTING CIRCUIT CONDUCTORS OVER 75 FT. LONG SHALL BE #10 AWG. CONDUCTORS IN LIEU OF #12 AWG.
4. ALL LIGHT FIXTURES, EXCEPT THE EXIT SIGNS, SHALL BE FURNISHED BY THE OWNER FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL LIGHT FIXTURES. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, PROVIDING ALL SUPPORTS, CLIPS, POWER CONNECTIONS, AND SEISMIC BRACING AS REQUIRED BY THE JURISDICTION.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EXIT SIGNS REQUIRED FOR THIS PROJECT. THIS SHALL INCLUDE ALL EXIT SIGNS SHOWN ON THE PLANS, ALL ADDITIONAL EXIT SIGNS THAT MAY BE REQUIRED BY THE JURISDICTION, NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING WITH THE JURISDICTION, THE REQUIRED LENS COLOR FOR EXIT SIGNS AND THE REQUIRED QUANTITY AND LOCATION FOR EXIT SIGNS.
6. INSTALL EXIT SIGNS OVER DOORWAYS TO MAINTAIN 4"SPACING BETWEEN BOTTOM OF SIGN AND TOP OF JAMB, OR AT THE DIRECTION OF THE FIRE DISTRICT.
7. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE AND ADJUST THE LIGHT FIXTURE INSTALLATION SCHEDULE AS REQUIRED TO ACCOMMODATE THE DATE OF DELIVERY OF THE OWNER FURNISHED LIGHT FIXTURES. CONTRACTOR SHALL IMMEDIATELY IDENTIFY AND REPORT ANY SHORTAGE OF FURNISHED MATERIALS TO THE GENERAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL INSTALL ALL TRACK HEADS AT LOCATIONS SHOWN ON PLANS AND ADJUST HEADS AS DIRECTED BY OWNER.
9. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING DIMENSIONS AND / OR DETAILS. ARCHITECTURAL SPRINKLERS, SENSORS, AND OTHER CEILING MOUNTED DEVICES, ETC. IF THERE IS ANY CONFLICT NOTIFY THE ARCHITECT IMMEDIATELY. DRAWINGS SUPERSEDE ALL OTHERS. LIGHT FIXTURE POSITIONS TAKE PRECEDENT OVER DIFFUSERS.
10. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH THE ARCHITECT AND LIGHTING DESIGNER FIXTURE MOUNTING DETAILS AND SIZES BASED ON FIELD CONDITIONS.
11. ALL FIXTURES SHALL BE U.L. OR ETL LISTED AND LABELED.
12. ELECTRICAL CONTRACTOR TO COORDINATE VOLTAGES.
13. ARCHITECT TO VERIFY ALL SPECIFIED FINISHES.
14. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH ARCHITECT AND LIGHTING DESIGNER FIXTURE QUANTITIES AND REPORT THIS INFORMATION TO LIGHTING SUPPLIER.
15. FIXTURES SHALL INCLUDE ACCESSORIES FOR INSTALLATION ACCORDING TO LOCAL AND NATIONAL CODES.
16. PRIOR TO ORDERING LIGHTING EQUIPMENT, THE CONTRACTOR SHALL VERIFY LOCATIONS AND RECESS DEPTHS.
17. LAMPS SHALL BE INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE.
18. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR LIGHTING FIXTURES LOCATED IN A FIRE-RATED CEILING.
19. IN AREAS VISIBLE TO CUSTOMERS, BATTERY ASSEMBLY FOR EMERGENCY AND EXIT LIGHTS SHALL BE CONCEALED AND REMOTE TYPE LIGHT FIXTURES USED.
20. CIRCUITS SERVING SIGNS SHALL BE CONNECTED BY A TIME SWITCH.
21. PROVIDE PROPER SUPPORT AND MOUNTING ACCESSORIES TO ALL LIGHTING FIXTURES. A #12 GAUGE GALVANIZED TIE WIRE PERMANENTLY ATTACHED TO THE STRUCTURE SHALL BE PROVIDED AT FOUR CORNERS OF EACH FIXTURE MOUNTED IN A GRID OR GYPSUM BOARD TYPE CEILING.

LED LIGHTING NOTE:

REMOVE LENS FROM ALL LED LAMPS, INCLUDING TRACK HEADS, CASEWORK LIGHTING ETC. RESPONSIBILITY TO BE VERIFIED WITH WSI PM.

EXISTING TRACK HEADS TO BE RE-LAMPED WITH LED12E26PS27K
LED DOWNLIGHT AT 12W.

IN SALES ALL BATTERY PACKS FOR EXIT AND EMERGENCY LIGHTS MUST BE REMOTE OR RECESSED. PAINT EXPOSED SURFACES TO MATCH ADJACENT FINISH.

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	FIXTURE	DESCRIPTION	MANUFACTURER	LAMP	WATTS	VOLTS	REMARKS
	A	EXISTING DOWNLIGHT	EXISTING DOWNLIGHT	(1)20W	20W	120V	TO BE RE-LAMPED WITH LED12E26PS27K LED DOWNLIGHT AT 12W.
	B	EXISTING TRACK HEAD	EXISTING TRACK HEAD	(1)50W	50W	120V	TO BE RE-LAMPED WITH LED12E26PS27K LED DOWNLIGHT AT 12W.
	C	EXISTING 2 LAMP RECESSED DOWNLIGHT	EXISTING RECESSED DOWNLIGHT	(2)20W	40W	120V	
	D	EXISTING PENDANT	EXISTING PENDANT	(1)60W	60W	120V	
	E	EXISTING PENDANT	EXISTING PENDANT	(1)60W	60W	120V	
	F	EXISTING DOWNLIGHT	EXISTING DOWNLIGHT	(1)35W	35W	120V	TO BE RE-LAMPED WITH LED12E26PS27K LED DOWNLIGHT AT 12W.
	G	EXISTING LINEAR FLUORESCENT	EXISTING LINEAR FLUORESCENT	(1)25W	25W	120V	
	TA	LINE VOLTAGE SINGLE CIRCUIT ELECTRIFIED TRACK. MOUNTED TO CEILING OR B-LINE. SEE LIGHTING PLANS FOR LOCATION. WHITE FINISH.	JUNO LIGHTING T-2 OR OTHER LENGTHS AS REQUIRED		-	120V	
	TC	JUNO TRACK MOUNTED PAR 30 LED GIMBLE RING. WHITE FINISH.	JUNO LIGHTING T363	LED12E26P30S27KSP	12W	120V	
	TD	JUNO TRACK MOUNTED PAR 30 LED GIMBLE RING NARROW FLOOD DISTRIBUTION WHITE FINISH.	JUNO LIGHTING T363	LED12E26P30S27KNFL	12W	120V	
	PB	DUKE OVERSIZED RECYCLED GLASS PENDANT.	POTTERY BARN #2683360	(1) PAR38 40° FLOOD LAMP @ 2700K LED	13W	120V	OWNER PROVIDED POTTERY BARN PRODUCT
	PD	PB CLASSIC FARMHOUSE PENDANT - METAL BELL, LARGE BRONZE SHADE AND CORD KIT.	POTTERY BARN #3083399	(1) PAR38 40° FLOOD LAMP @ 2700K LED	13W	120V	OWNER PROVIDED POTTERY BARN PRODUCT

COMcheck Software Version 4.1.5.1

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: PB-Scottsdale Remodel
Project Type: Alteration

Construction Site:
15279 N. Scottsdale Road
Scottsdale, AZ 85254

Owner/Agent:

Designer/Contractor:
Bryan Wilkerson
EEA Consulting engineers
6615 Vaught Ranch Rd
Suite 100
Austin, TX 78730
(512) 744-4400
bryanwilkerson@eeace.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-1st Floor Sales (Retail:Sales Area)	5273	1.59	8384
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: B	5273 (a)	1.40	7382 (b)
2-1st Floor Office (Common Space Types:Office - Enclosed): Exempt			
3-1st Floor Corridor (Common Space Types:Corridor/Transition <8 ft wide): Exempt			
4-1st Floor Stockroom (Common Space Types:Storage >=1000 sq.ft.)	1105	0.63	696
5-2nd Floor Restrooms (Common Space Types:Restrooms): Exempt			
6-2nd Floor Sales (Retail:Sales Area)	4250	1.59	6758
Allowance: Furniture, clothing, cosmetics highlighting / Fix. ID: B	4250 (a)	1.40	5950 (b)
7-2nd Floor Stockroom / Closets (Common Space Types:Storage >=1000 sq.ft.): Exempt			
8-2nd Floor Corridor (Common Space Types:Corridor/Transition <8 ft wide): Exempt			
		Supplemental Allowed Watts (null) =	475
		Total Allowed Watts =	29645

(a) Area claimed may exceed total floor area when Retail Merchandise Highlighting allowance(s) are specified.
(b) Allowance is (B x C) or the actual wattage of the fixtures given in Proposed Power section, whichever is less.
(c) Supplemental watts must be associated with retail merchandise highlighting fixtures.

Area Category Exemption Qualifications

Activity Area	# Fixtures Pre-Alt.	# Fixtures Repl./Added	Total # Watts Pre-Alt.	Total # Watts Post-Alt.
1st Floor Office (Common Space Types:Office - Enclosed 87 sq.ft.) Exemption: Replacement of bulbs and ballasts only.			64.000	64.000
1st Floor Corridor (Common Space Types:Corridor/Transition <8 ft wide 608 sq.ft.) Exemption: Replacement of bulbs and ballasts only.			300.000	300.000
2nd Floor Restrooms (Common Space Types:Restrooms 128 sq.ft.) Exemption: Replacement of bulbs and ballasts only.			360.000	360.000
2nd Floor Stockroom / Closets (Common Space Types:Storage >=1000 sq.ft. 2555 sq.ft.) Exemption: Replacement of bulbs and ballasts only.			2520.000	2520.000
2nd Floor Corridor (Common Space Types:Corridor/Transition <8 ft wide 152 sq.ft.) Exemption: Replacement of bulbs and ballasts only.			140.000	140.000

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1st Floor Sales (Retail:Sales Area 5273 sq.ft.)				
Compact Fluorescent 1: F: 35w Downlight: Other: Electronic:	1	42	35	1470
Track lighting 1: B: Track: Wattage based on circuit breaker capacity (120 amps x 120 volts)	0	0	14400	14400
LED 1: PD: 13w LED Pendant: Other:	1	4	13	52
LED 2: PB: 13w LED Pendant: Other:	1	3	13	39
1st Floor Office (Common Space Types:Office - Enclosed 87 sq.ft.): Exempt				
1st Floor Corridor (Common Space Types:Corridor/Transition <8 ft wide 608 sq.ft.): Exempt				
1st Floor Stockroom (Common Space Types:Storage >=1000 sq.ft. 1105 sq.ft.)				
Linear Fluorescent 1: G: 35w Linear Fluorscent: 48" T8 25W (Super T8): Electronic:	1	28	25	700
2nd Floor Restrooms (Common Space Types:Restrooms 128 sq.ft.): Exempt				
2nd Floor Sales (Retail:Sales Area 4250 sq.ft.)				
Track lighting 2: B: Track: Wattage based on circuit breaker capacity (100 amps x 120 volts)	0	0	12000	12000
Compact Fluorescent 2: F: 35w Downlight: Other: Electronic:	1	27	35	945
LED 3: PD: 13w LED Pendant: Other:	1	3	13	39
2nd Floor Stockroom / Closets (Common Space Types:Storage >=1000 sq.ft. 2555 sq.ft.): Exempt				
2nd Floor Corridor (Common Space Types:Corridor/Transition <8 ft wide 152 sq.ft.): Exempt				
			Total Proposed Watts =	29645

Interior Lighting : Passes using retail merchandise highlighting supplemental watts.

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Bryan Wilkerson — Name - Title
Signature
11/11/2021 — Date

zebra
ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA
EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERY BARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

△	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Digitally Signed
Registered Professional Engineer
MICHAEL GATH
75819
01-14-2022
Date Signed
ARIZONA, U.S.A.
Michael Gath, P.E. (AZ)
2022.01.14 13:17:01-06'00'

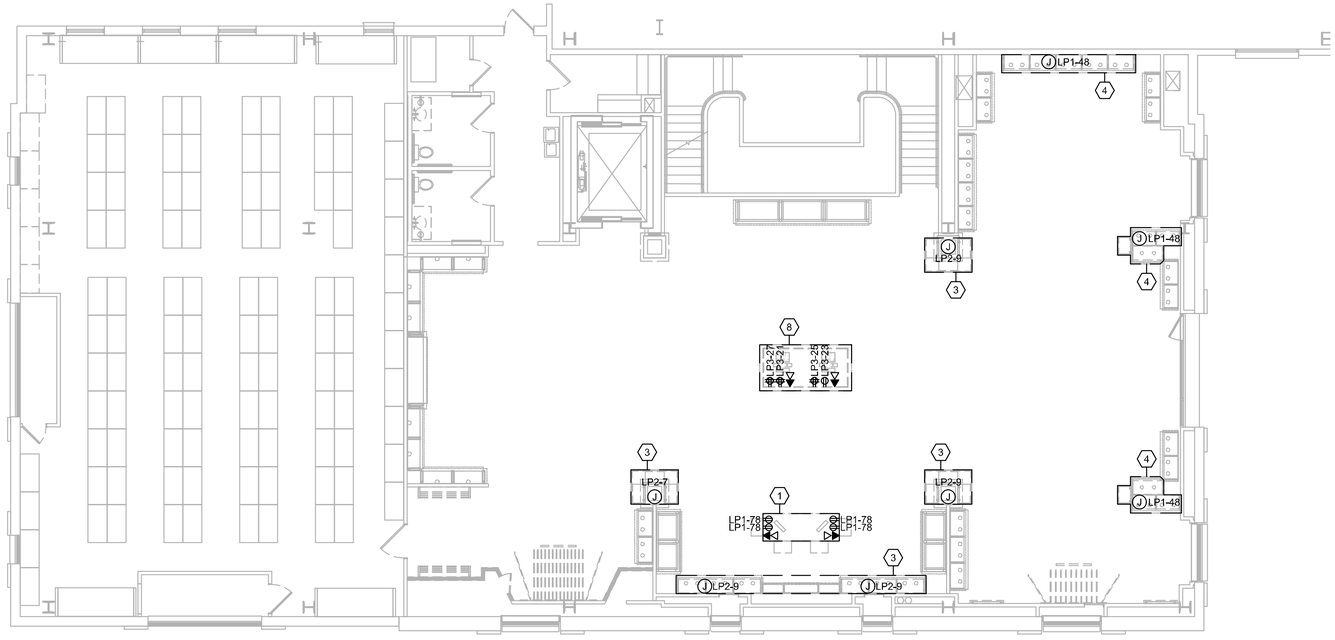
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SHEET NAME:
LIGHT FIXTURE SCHEDULE

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
E-002



SECOND FLOOR POWER DEMOLITION PLAN

2

POWER GENERAL NOTES

A. ▽▼(J) PROVIDE AND INSTALL RACEWAY AND BOX FOR LV SYSTEMS.

B. REFER TO MECHANICAL PLAN SET FOR MECHANICAL EQUIPMENT INFORMATION.

POWER DEMOLITION KEYED NOTES:

(1) REMOVE AND PROPERLY DISPOSE OF EXISTING ELECTRICAL DEVICE. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL OR TELEPHONE BOARD. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES NOT BEING DEMOLISHED. FIELD VERIFY EXACT LOCATION OF DEVICE AND DISCONNECTION REQUIREMENTS PRIOR TO BID.

(2) NOT USED.

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING MILLWORK. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO J-BOX IN FLOOR. LOCATION TO BE CONVERTED TO A FLOORBOX. MAINTAIN CIRCUIT CONTINUITY FOR CONNECTION TO RECEPTACLES INSIDE NEW FLOOR. REFER TO SHEET E-110.

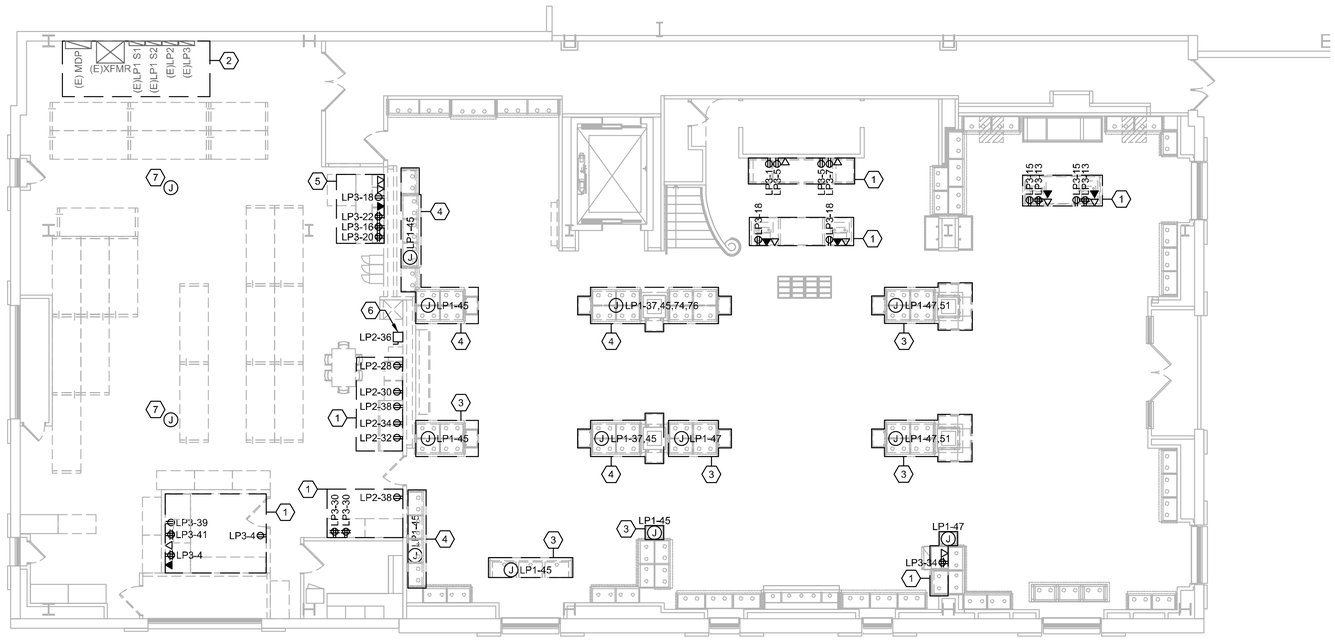
(4) EXISTING MILLWORK AND ELECTRICAL DEVICES TO BE RELOCATED. REFER TO SHEET E-110 FOR NEW LOCATION.

(5) - (7) NOT USED.

(8) EXISTING DESIGN STUDIO CASHWRAP TO BE DEMOLISHED. NEW MILLWORK FIXTURE TO BE INSTALLED IN EXISTING LOCATION. EXISTING CONDUIT AND CONDUCTORS TO REMAIN AND BE REUSED IN NEW CASHWRAP FIXTURE.

1' 0 5' 10' 15'

SCALE: 1/8" = 1'-0" @ FULL SIZE



FIRST FLOOR POWER DEMOLITION PLAN

1

POWER GENERAL NOTES

A. ▽▼(J) PROVIDE AND INSTALL RACEWAY AND BOX FOR LV SYSTEMS.

B. REFER TO MECHANICAL PLAN SET FOR MECHANICAL EQUIPMENT INFORMATION.

POWER DEMOLITION KEYED NOTES:

(1) REMOVE AND PROPERLY DISPOSE OF EXISTING ELECTRICAL DEVICE. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL OR TELEPHONE BOARD. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES NOT BEING DEMOLISHED. FIELD VERIFY EXACT LOCATION OF DEVICE AND DISCONNECTION REQUIREMENTS PRIOR TO BID.

(2) EXISTING PANELS, TRANSFORMER, AND ELECTRICAL EQUIPMENT TO REMAIN.

(3) REMOVE AND PROPERLY DISPOSE OF EXISTING MILLWORK. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO J-BOX IN FLOOR. LOCATION TO BE CONVERTED TO A FLOORBOX. MAINTAIN CIRCUIT CONTINUITY FOR CONNECTION TO RECEPTACLES INSIDE NEW FLOOR. REFER TO SHEET E-110.

(4) EXISTING MILLWORK AND ELECTRICAL DEVICES TO BE RELOCATED. REFER TO SHEET E-110 FOR NEW LOCATION.

(5) EXISTING SHIPPING / RECEIVING DESK TO BE RELOCATED. REFER TO SHEET E-110 FOR NEW LOCATION.

(6) EXISTING WATER HEATER AND ASSOCIATED ELECTRICAL EQUIPMENT TO BE RELOCATED. REFER TO SHEET E-110 FOR NEW LOCATION.

(7) EXISTING WIRELESS ACCESS POINT TO BE RELOCATED. REFER TO SHEET E-110 FOR NEW LOCATION. VERIFY DISCONNECTION / RECONNECTION REQUIREMENTS PRIOR TO WORK.

1' 0 5' 10' 15'

SCALE: 1/8" = 1'-0" @ FULL SIZE

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

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SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

△	DATE	DESCRIPTION
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	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Digitally Signed
Michael Gath, P.E. (AZ)
2022.01.14 13:18:22-06'00'

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SHEET NAME:
POWER DEMOLITION PLANS

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
ED-110

POWER GENERAL NOTES

A. ▽▼(J) PROVIDE AND INSTALL RACEWAY AND BOX FOR LV SYSTEMS.

B. REFER TO MECHANICAL PLAN SET FOR MECHANICAL EQUIPMENT INFORMATION.

POWER KEYED NOTES

(1) RELOCATED MILLWORK FIXTURE. REFER TO SHEET ED-100 FOR PREVIOUS LOCATION. INSTALL NEW ELECTRICAL EQUIPMENT UPON INSTALLATION AT LOCATION. CONFIRM MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

(2) - (7) NOT USED.

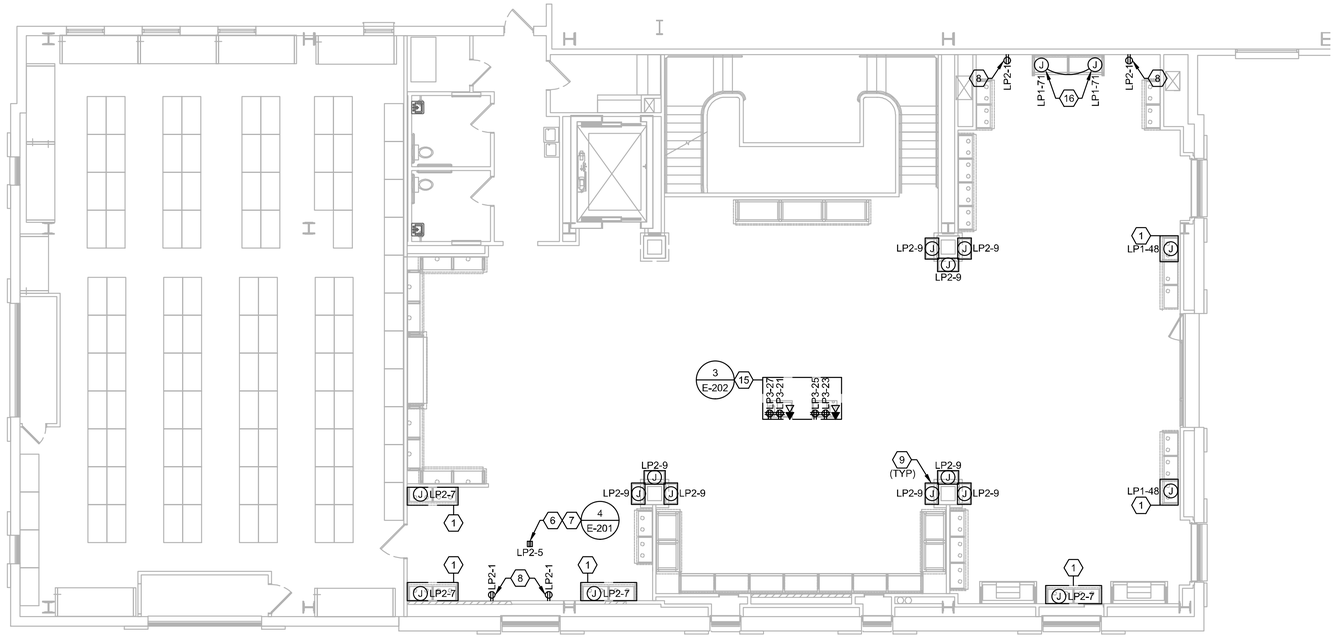
(8) GENERAL PURPOSE RECEPTACLE TO BE MOUNTED AT 18" A.F.F.

(9) CONNECTION FOR POWER TO NEW WATERFALL MILLWORK SHELVES. REUSE EXISTING STANDARDS. VERIFY LOCATION AND CONNECTION REQUIREMENTS WITH MILLWORK MANUFACTURER PRIOR TO INSTALLATION.

(10) - (14) NOT USED.

(15) NEW DESIGN STUDIO CASHWRAP TO BE INSTALLED IN EXISTING LOCATION . RECONNECT RECEPTACLES, DATA, AND TELEPHONE OUTLETS TO EXISTING CONDUIT AND CONDUCTORS. VERIFY LOCATION WITH MILLWORK MANUFACTURER PRIOR TO INSTALLATION.

(16) POWER CONNECTION TO CABINET LIGHTING PROVIDED VIA 6' WHIPS AT 8'-5". VERIFY LOCATION AND CONNECTION REQUIREMENTS WITH MILLWORK MANUFACTURER.



SECOND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0" @ FULL SIZE

2

POWER KEYED NOTES

(1) RELOCATED MILLWORK FIXTURE. REFER TO SHEET ED-100 FOR PREVIOUS LOCATION. INSTALL NEW ELECTRICAL EQUIPMENT UPON INSTALLATION AT LOCATION. CONFIRM MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

(2) EXISTING PANELS, TRANSFORMER, AND ELECTRICAL EQUIPMENT TO REMAIN.

(3) REFER TO DETAIL 1 ON SHEET E-201 FOR CORRESPONDING CONDUIT SIZES.

(4) CONCEAL DEVICES AND ASSOCIATED CONDUIT AND CABLING WITHIN CASEWORK. COORDINATE DEVICE LOCATIONS WITH CASEWORK SHOP DRAWINGS AND DETAILS.

(5) ELECTRICAL CONTRACTOR TO PROVIDE RECESSED FLOOR MOUNTED JUNCTION BOX FOR POWER AND CONDUIT STUB-UPS FOR DATA, VOICE, AND LV SERVICES TO CONSULTATION TABLE. ELECTRICAL CONTRACTOR SHALL SIZE JUNCTION BOX TO ACCOMMODATE QUANTITY OF CONDUITS. ALL JUNCTION BOXES AND STUB-UPS SHALL BE SIZED AND ARRANGED AS REQUIRED TO CONCEAL WITH METAL ENCLOSURE PROVIDED BY 3D STUDIO.

(6) PROVIDE FLUSH FLOOR BOX, LEGRAND PRODUCT, RFB4 AND (1) NEMA 5-20R RECEPTACLES. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION. THE FLOOR BOX COVERS SHOULD ALL BE OPENING IN THE SAME DIRECTION.

(7) FOR DEVICE SHOWN, RUN 1/2" CONDUIT IN FLOOR UNDER LAYMENT SPACE. DO NOT RUN CONDUIT PARALLEL WITH WOOD FLOORING. COORDINATE CONDUIT ROUTING WITH FLOORING CONTRACTOR AND ARCHITECT PRIOR TO LAYOUT TO ACCOMMODATE CONDUIT CUT-OUTS IN PLYWOOD. SEE SPECIFICATIONS SECTION 3.02.B.5.

(8) NOT USED.

(9) CONNECTION FOR POWER TO NEW WATERFALL MILLWORK SHELVES. REUSE EXISTING STANDARDS. VERIFY LOCATION AND CONNECTION REQUIREMENTS WITH MILLWORK MANUFACTURER PRIOR TO INSTALLATION.

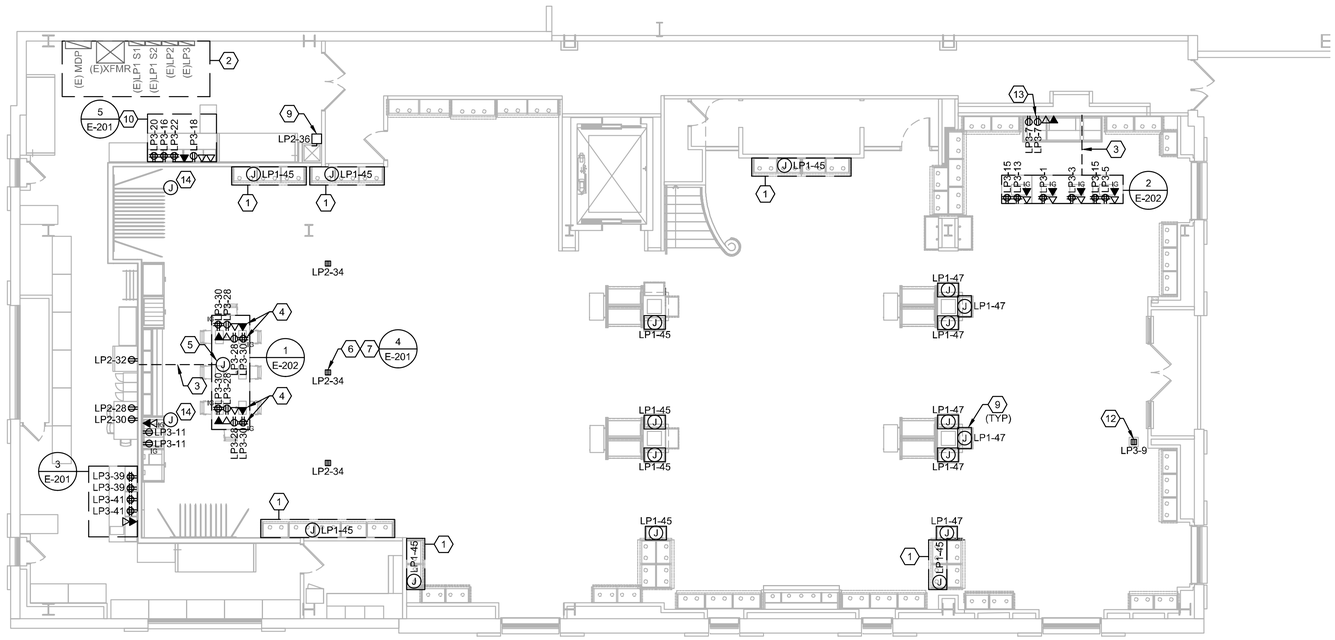
(10) RELOCATED SHIPPING AND RECEIVING DESK. REFER TO SHEET ED-110 FOR PREVIOUS LOCATION.

(11) RELOCATED WATER HEATER AND ASSOCIATED ELECTRICAL EQUIPMENT. REFER TO SHEET ED-110 FOR PREVIOUS LOCATION.

(12) PROVIDE LEGRAND RFB4 FLOORBOX WITH (2) NEMA 5-20R RECEPTACLES, (1) TELEPHONE, AND (1) DATA OUTLET FOR HOLIDAY POS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION.

(13) RELOCATED MWS AND PRINTER IN EXISTING BACKWRAP. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

(14) RELOCATED WIRELESS ACCESS POINTS. VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO SHEET ED-110 FOR PREVIOUS LOCATION.



FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'-0" @ FULL SIZE

1

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com

State of Registration ARIZONA
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STORE NO.:
651

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SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

△	DATE	DESCRIPTION
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	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Digitally Signed
Registered Professional Engineer
73819
MICHAEL GATH
01-14-2022
State of Arizona
ARIZONA, U.S.A.

Michael Gath, P.E. (AZ)
2022.01.14 13:16:38-06'00'

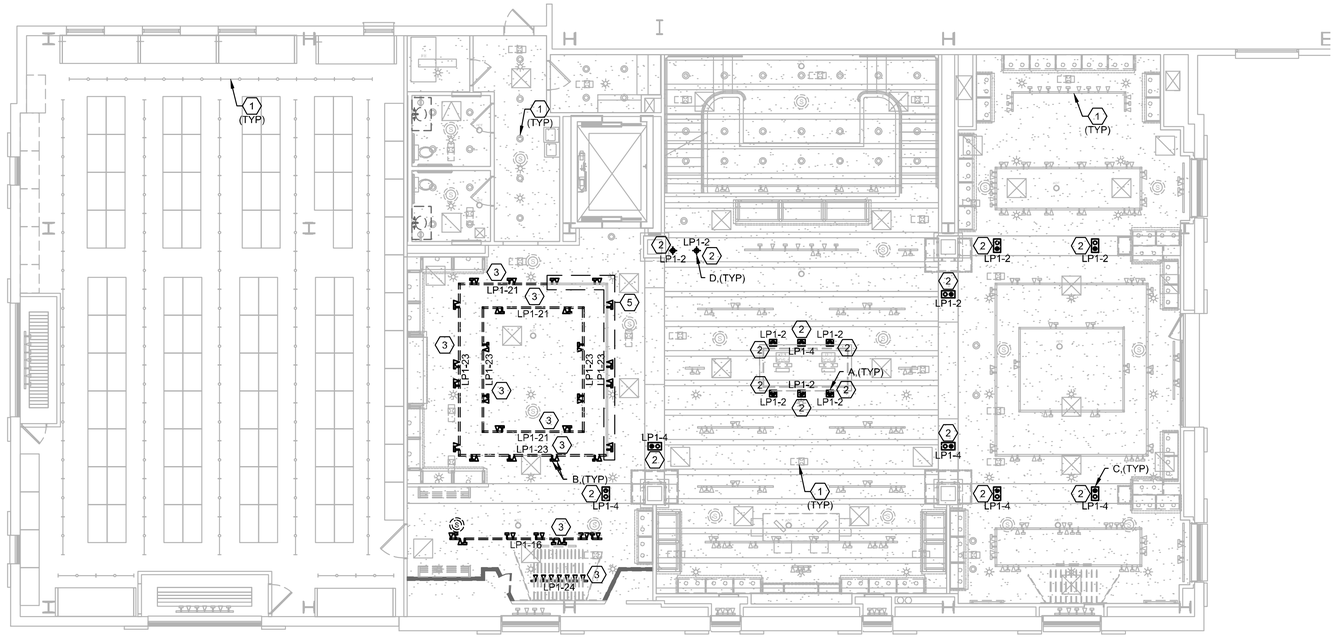
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SHEET NAME:
POWER PLAN

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
E-110



SECOND FLOOR LIGHTING DEMOLITION PLAN

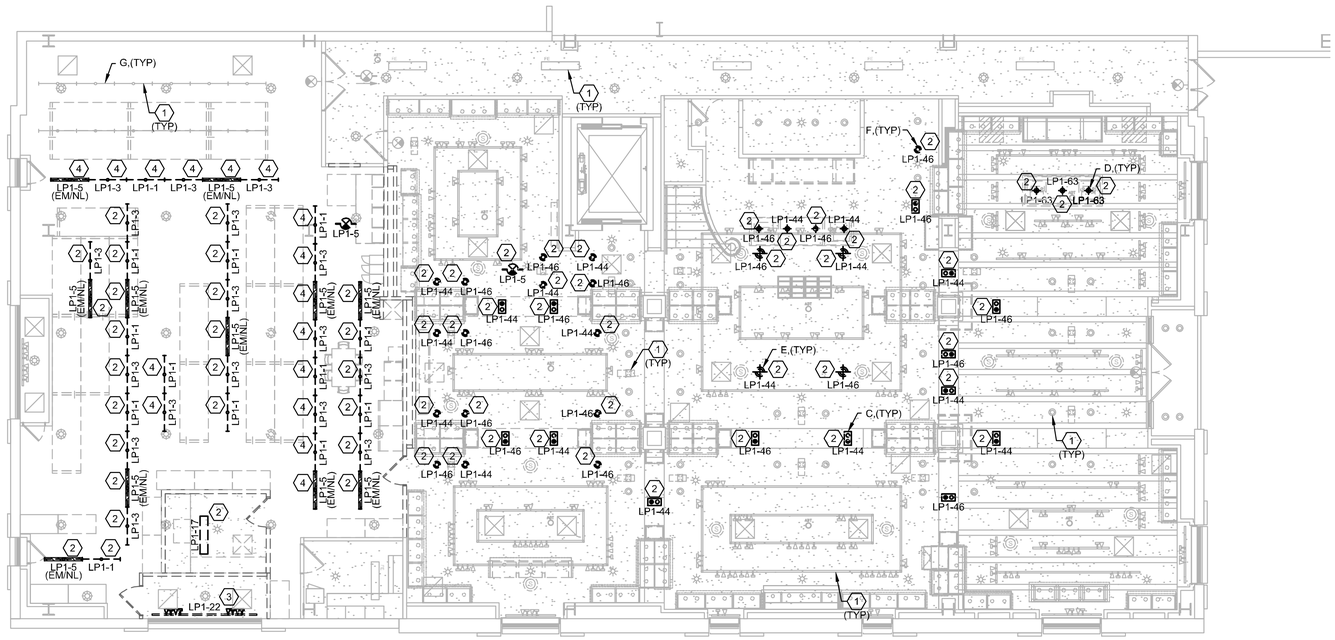
2

LIGHTING DEMO KEYED NOTES:

1. EXISTING LIGHTING / TRACK TO REMAIN.
2. REMOVE AND PROPERLY DISPOSE OF EXISTING LIGHT FIXTURE. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL OR TELEPHONE BOARD. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES NOT BEING DEMOLISHED. FIELD VERIFY EXACT LOCATION OF DEVICES AND DISCONNECTION REQUIREMENTS PRIOR TO BID. BID ALT: EXISTING RECESSED MULTIPLES TO REMAIN.
3. REMOVE AND PROPERLY DISPOSE OF EXISTING TRACK. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL OR TELEPHONE BOARD. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES NOT BEING DEMOLISHED. FIELD VERIFY EXACT LOCATION OF DEVICE AND DISCONNECTION REQUIREMENTS PRIOR TO BID. EXISTING TRACK HEADS TO BE SAVED FOR USE WITH NEW TRACK BEING INSTALLED. REFER TO SHEET E-130 FOR NEW LOCATION AND TRACK HEAD COUNTS.
4. NOT USED.
5. EXISTING TRACK TO REMAIN. REMOVE AND PROPERLY DISPOSE OF EXISTING TRACK HEADS. REFER TO SHEET E-130 FOR NEW TRACK HEADS TO BE INSTALLED ON EXISTING TRACK.

1' 0 5' 10' 15'

SCALE: 1/8" = 1'-0" @ FULL SIZE



FIRST FLOOR LIGHTING DEMOLITION PLAN

1

LIGHTING DEMO KEYED NOTES:

1. EXISTING LIGHTING / TRACK TO REMAIN.
2. REMOVE AND PROPERLY DISPOSE OF EXISTING LIGHT FIXTURE. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL OR TELEPHONE BOARD. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES NOT BEING DEMOLISHED. FIELD VERIFY EXACT LOCATION OF DEVICES AND DISCONNECTION REQUIREMENTS PRIOR TO BID. BID ALT: EXISTING RECESSED MULTIPLES TO REMAIN.
3. REMOVE AND PROPERLY DISPOSE OF EXISTING TRACK. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL OR TELEPHONE BOARD. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING DEVICES NOT BEING DEMOLISHED. FIELD VERIFY EXACT LOCATION OF DEVICE AND DISCONNECTION REQUIREMENTS PRIOR TO BID.
4. EXISTING LIGHT FIXTURE TO BE RELOCATED. REFER TO SHEET E-130 FOR NEW LOCATION.

1' 0 5' 10' 15'

SCALE: 1/8" = 1'-0" @ FULL SIZE

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
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State of Registration ARIZONA
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EEA Project No. 20216523

STORE NO.:
651

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SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

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	01/13/22	REVISION 1

STATUS:
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Digitally Signed
Registered Professional Engineer
Michael Gath
73819
MICHAEL GATH
01-14-2022
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ARIZONA, U.S.A.

Michael Gath, P.E. (AZ)
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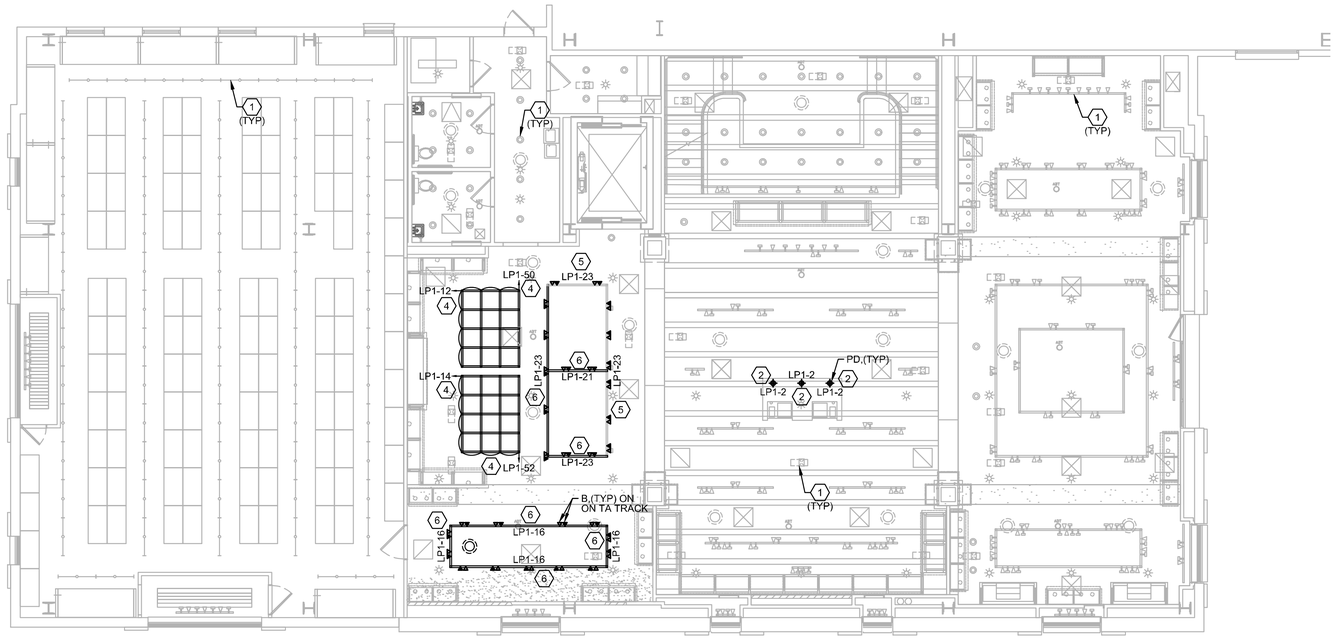
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SHEET NAME:
LIGHTING DEMOLITION PLANS

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
ED-130



SECOND FLOOR LIGHTING PLAN

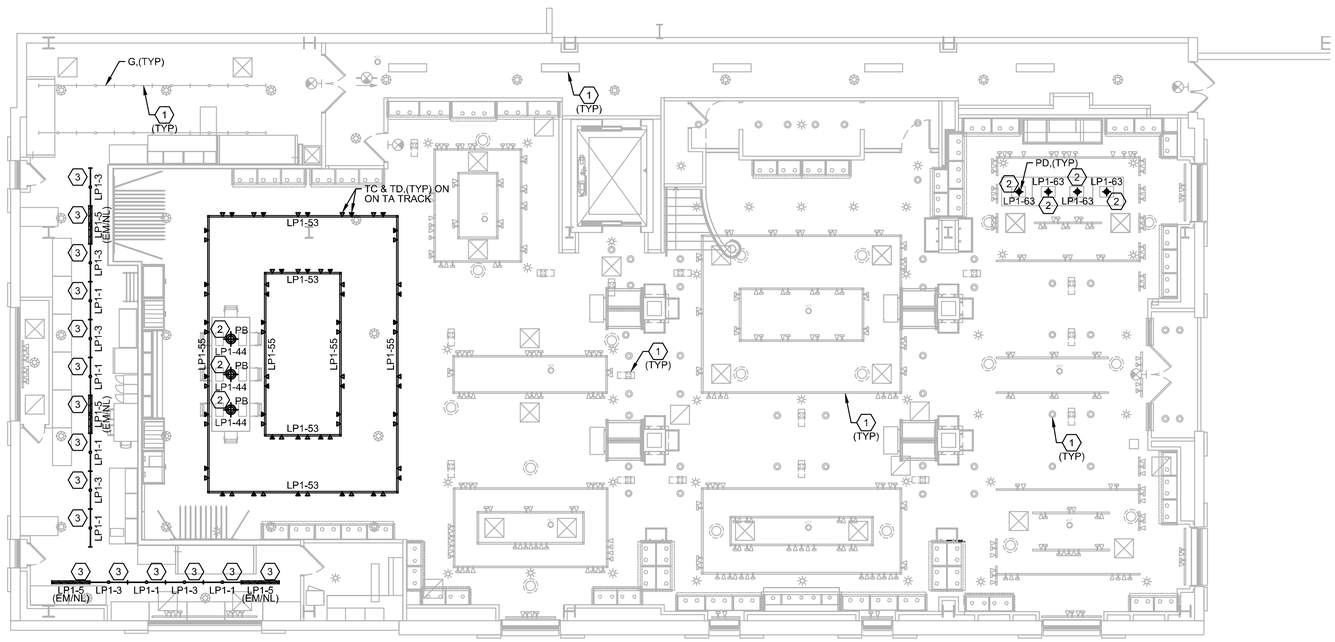
LIGHTING KEYED NOTES

1. EXISTING LIGHTING / TRACK TO REMAIN.
2. NEW LIGHT TO BE INSTALLED. PROVIDE CEILING RATED J-BOX TO BE INSTALLED AT DECK. VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3. NOT USED.
4. TRACK INSTALLED FOR CONNECTION OF LIGHTING FIXTURES FOR SALE.
5. RELOCATED TRACK HEADS ON EXISTING TRACK. REFER TO SHEET ED-130 FOR PREVIOUS LOCATION
6. NEW TRACK TO BE INSTALLED WITH RELOCATED TRACK HEADS. VERIFY LENGTH WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO SHEET ED-140 FOR EXISTING LOCATION OF TRACK HEADS.

1' 0 5' 10' 15'

SCALE: 1/8" = 1'-0" @ FULL SIZE

2



FIRST FLOOR LIGHTING PLAN

LIGHTING KEYED NOTES

1. EXISTING LIGHTING / TRACK TO REMAIN.
2. NEW LIGHT TO BE INSTALLED. PROVIDE CEILING RATED J-BOX TO BE INSTALLED AT DECK. VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3. RELOCATED LIGHT FIXTURE. REFER TO SHEET ED-130 FOR PREVIOUS LOCATION.

1' 0 5' 10' 15'

SCALE: 1/8" = 1'-0" @ FULL SIZE

1

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
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REVISIONS

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2	11/22/21	BID
3	01/13/22	REVISION 1

STATUS:
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Michael Gath, P.E. (AZ)
2022.01.14 13:16:13-06'00'

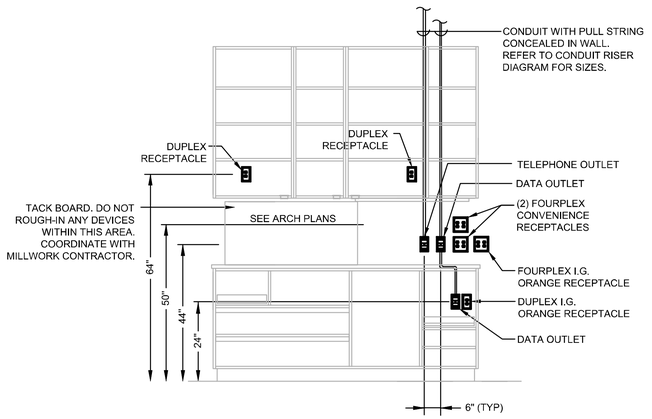
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SHEET NAME:
LIGHTING PLANS

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

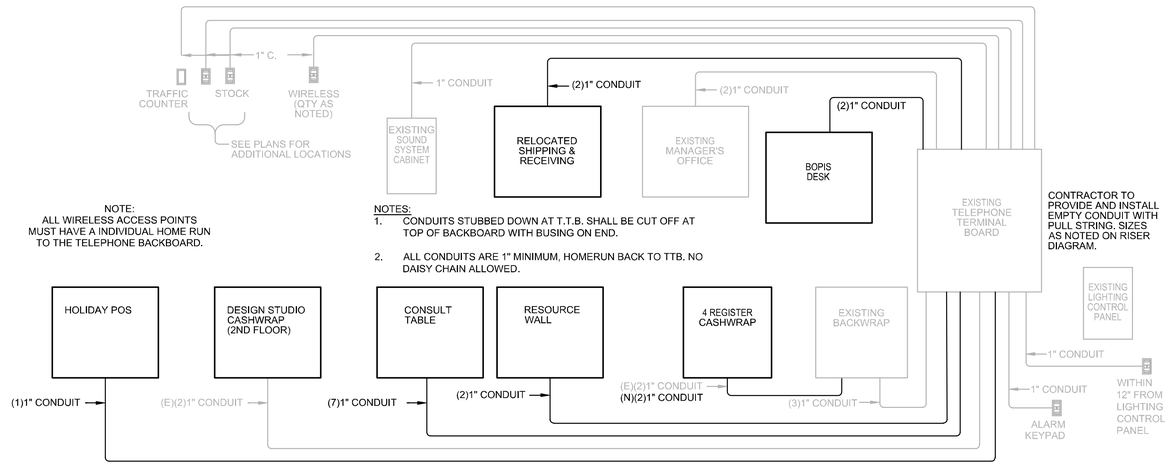
SHEET NO.:
E-130



NOTE: ELEVATION IS DIAGRAMMATIC. SEE ARCHITECTURAL DETAILS FOR EXACT ORIENTATION.

SHIPPING/RECEIVING COUNTER ELEVATION

5 | NOT TO SCALE

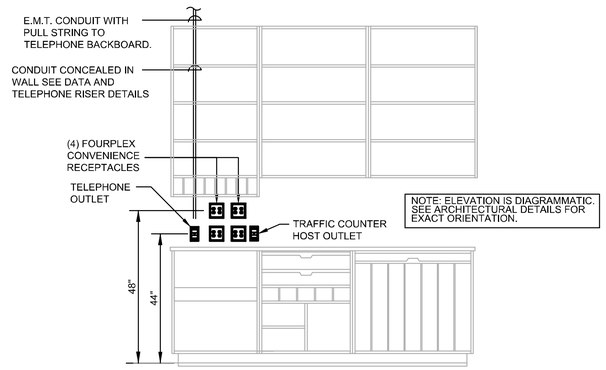


NOTE:
ALL WIRELESS ACCESS POINTS MUST HAVE A INDIVIDUAL HOME RUN TO THE TELEPHONE BACKBOARD.

NOTES:
1. CONDUITS STUBBED DOWN AT T.T.B. SHALL BE CUT OFF AT TOP OF BACKBOARD WITH BUSING ON END.
2. ALL CONDUITS ARE 1" MINIMUM, HOMERUN BACK TO TTB. NO DAISY CHAIN ALLOWED.

DATA / VOICE CONDUIT RISER DIAGRAM

1 | NOT TO SCALE

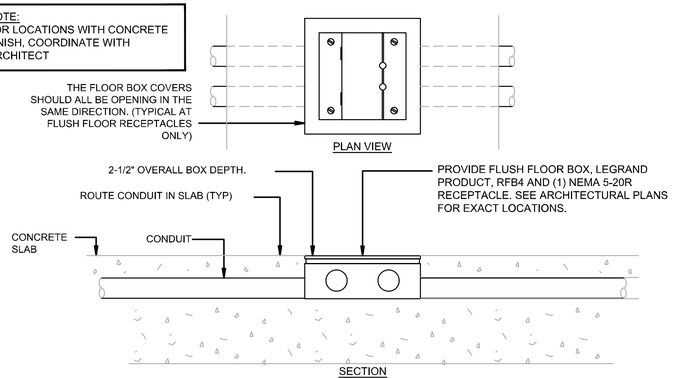


NOTE: ELEVATION IS DIAGRAMMATIC. SEE ARCHITECTURAL DETAILS FOR EXACT ORIENTATION.

BOPIS DESK COUNTER ELEVATION

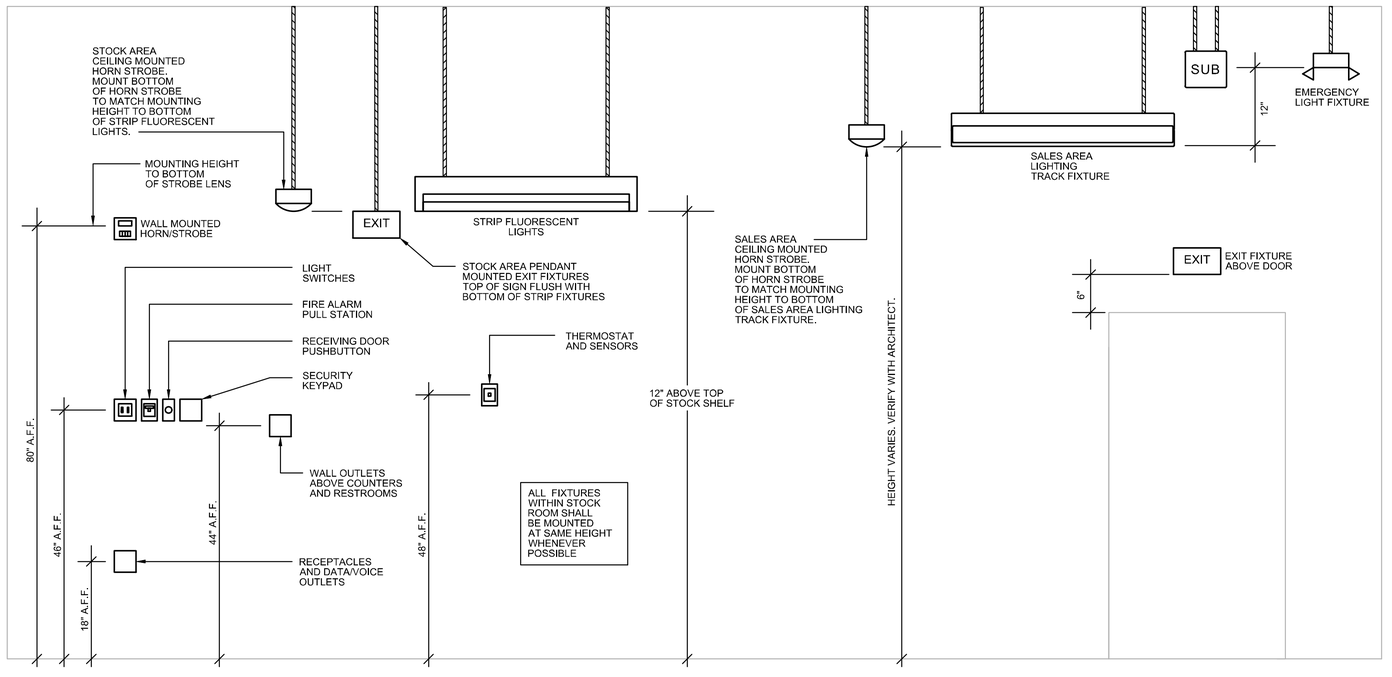
3 | NOT TO SCALE

NOTE:
FOR LOCATIONS WITH CONCRETE FINISH, COORDINATE WITH ARCHITECT



TYPICAL FLOOR BOX AND CONDUIT DETAIL

4 | NOT TO SCALE



DEVICE MOUNTING HEIGHT ELEVATION DETAIL

2 | NOT TO SCALE

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Digitally Signed
Michael Gath, P.E. (AZ)
2022.01.14 13:15:10-06'00'

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
ELECTRICAL DETAILS

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
E-201

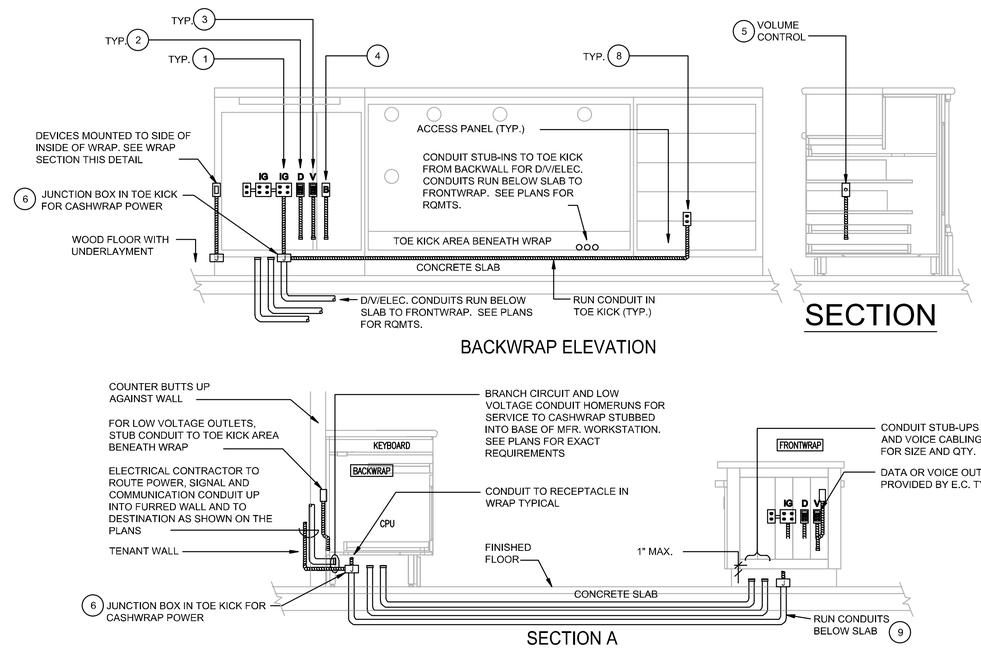
NUMBERED SHEET NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE I.G. RECEPTACLE WITH ORANGE DEVICE AND COVERPLATE MOUNTED IN MILLWORK. PROVIDE BRANCH CIRCUIT CONCEALED IN MILLWORK FROM OUTLET TO TOE KICK AND TO FLOOR MOUNT JUNCTION BOX BENEATH MILLWORK ACCESS PANEL. PRIOR TO INSTALL, COORDINATE LAYOUT WITH ARCHITECTURAL AND MILLWORK.
2. ELECTRICAL CONTRACTOR TO PROVIDE 2" SQUARE OUTLET BOX WITH SINGLE GANG PLASTER RING MOUNTED IN MILLWORK FOR DATA OUTLET LOCATION. PROVIDE 3/4" FLEX, WITH PULL STRING FROM OUTLET BOX AND STUBBED TO TOE KICK. RUN CONDUIT NEATLY ATTACHED TO BACK PANEL OF MILLWORK. COORDINATE WITH MILLWORK CONTRACTOR TO CORE THROUGH BOTTOM PANEL TO TOE KICK FOR CONDUIT STUB-OUT. PROVIDE INSULATED BUSHING AT END OF CONDUIT. PRIOR TO INSTALL, COORDINATE LAYOUT WITH ARCHITECTURAL AND MILLWORK.
3. ELECTRICAL CONTRACTOR TO PROVIDE 2" SQUARE OUTLET BOX WITH SINGLE GANG PLASTER RING MOUNTED IN MILLWORK FOR VOICE OUTLET LOCATION. PROVIDE 3/4" FLEX. WITH PULL STRING FROM OUTLET BOX AND STUBBED TO TOE KICK. RUN CONDUIT NEATLY ATTACHED TO BACK PANEL OF MILLWORK. COORDINATE WITH MILLWORK CONTRACTOR TO CORE THROUGH BOTTOM PANEL TO TOE KICK FOR CONDUIT STUB-OUT. PROVIDE INSULATED BUSHING AT END OF CONDUIT. PRIOR TO INSTALL, COORDINATE LAYOUT WITH ARCHITECTURAL AND MILLWORK.
4. ELECTRICAL CONTRACTOR TO PROVIDE DOOR CHIME MOUNTED IN MILLWORK. PROVIDE 3/4" FLEX. FROM CHIME STUBBED TO TOE KICK. RUN CONDUIT NEATLY ATTACHED TO BACK PANEL OF MILLWORK. COORDINATE WITH MILLWORK CONTRACTOR TO CORE THROUGH BOTTOM PANEL TO TOE KICK FOR CONDUIT STUB-OUT. PROVIDE INSULATED BUSHING AT END OF CONDUIT. PRIOR TO INSTALL, COORDINATE LAYOUT WITH ARCHITECTURAL AND MILLWORK.
5. ELECTRICAL CONTRACTOR TO PROVIDE 2-GANG OUTLET BOX WITH SINGLE GANG PLASTER RING MOUNTED IN MILLWORK FOR SOUND SYSTEM VOLUME CONTROL. PROVIDE 3/4" FLEX. WITH PULL STRING FROM OUTLET BOX AND STUBBED TO TOE KICK. RUN CONDUIT NEATLY ATTACHED TO BACK PANEL OF MILLWORK. COORDINATE WITH MILLWORK CONTRACTOR TO CORE THROUGH BOTTOM PANEL TO TOE KICK FOR CONDUIT STUB-OUT. PROVIDE INSULATED BUSHING AT END OF CONDUIT. PRIOR TO INSTALL, COORDINATE LAYOUT WITH ARCHITECTURAL AND MILLWORK.
6. PROVIDE FLOOR MOUNTED JUNCTION BOX FOR POWER TO CASH REGISTERS. ELECTRICAL CONTRACTOR SHALL LOCATE JUNCTION BOXES CONCEALED IN CASHWRAP TOE KICK BENEATH THE MILLWORK ACCESS PANEL - COORDINATE WITH MILLWORK CONTRACTOR FOR EXACT LOCATION.
7. PROVIDE (4) FOUR CONDUIT STUB-IN TO CASHWRAP TOE KICK FOR DATA, VOICE, AND LOW VOLTAGE SERVICES TO WRAP - REFER TO FLOOR PLAN FOR QTY., SIZE, AND ROUTING. ELECTRICAL CONTRACTOR SHALL LOCATE CONDUIT STUB-OUTS CONCEALED IN CASHWRAP TOE KICK BENEATH THE MILLWORK ACCESS PANEL - COORDINATE WITH MILLWORK CONTRACTOR FOR EXACT LOCATION. FOR EACH CONDUIT STUB-OUT PROVIDE AN INSULATED BUSHING ON END. FOR STUB-UPS FROM FLOOR, CONDUIT END SHALL BE NO MORE THAN 1" A.F.F. ELECTRICAL CONTRACTOR SHALL PROVIDE HEAVY GAUGE PULL STRING IN DATA/VOICE CONDUITS TO CASHWRAP.
8. ELECTRICAL CONTRACTOR TO PROVIDE RECEPTACLE MOUNTED IN MILLWORK. PROVIDE BRANCH CIRCUIT CONCEALED IN MILLWORK FROM OUTLET TO TOE KICK AND TO FLOOR MOUNT JUNCTION BOX BENEATH MILLWORK ACCESS PANEL. PRIOR TO INSTALL, COORDINATE LAYOUT WITH ARCHITECTURAL AND MILLWORK.
9. FOR SLAB-ON-GRADE CONDITIONS, TRENCH FLOOR AND INSTALL CONDUIT IN EXISTING SLAB. PVC MAY BE USED FOR HORIZONTAL RUNS BELOW SLAB IF LANDLORD AND JURISDICTION APPROVED, BUT METALLIC CONDUIT AND ELBOWS FOR VERTICAL STUB-UPS AND RUNS (TYPICAL). FOR ELEVATED SLAB CONDITIONS, ELECTRICAL CONTRACTOR SHALL CORE THROUGH EXISTING FLOOR STRUCTURE FOR INSTALLATION OF CONDUIT TO BENEATH CASHWRAP. PROVIDE FIRE PROOFING AS REQUIRED TO MAINTAIN FIRE RATING ON FLOOR. PRIOR TO CORING, OBTAIN APPROVAL FROM LANDLORD AND COORDINATE EXACT LOCATION WITH ARCHITECT (TYPICAL). RUN CONDUIT AT UNDERSIDE OF FLOOR STRUCTURE WITHIN PREMISES BELOW. DO NOT INSTALL ANY JUNCTION BOXES WITHIN SPACE BELOW AND COORDINATE WITH LANDLORD FOR ACCESS TO PREMISES. SEE PLANS FOR ROUTING AND CONDUIT REQUIREMENTS (TYPICAL).

DETAIL IS DIAGRAMMATIC. ACTUAL QUANTITY OF POS REGISTER LOCATIONS SHOWN ON PLANS MAY DIFFER FROM DETAIL. ELECTRICAL CONTRACTOR SHALL VERIFY QUANTITY OF REGISTER LOCATIONS ON PLAN, AND INSTALL OUTLET AND CONDUIT PROVISIONS AT EACH LOCATION AS ILLUSTRATED ON DETAIL.

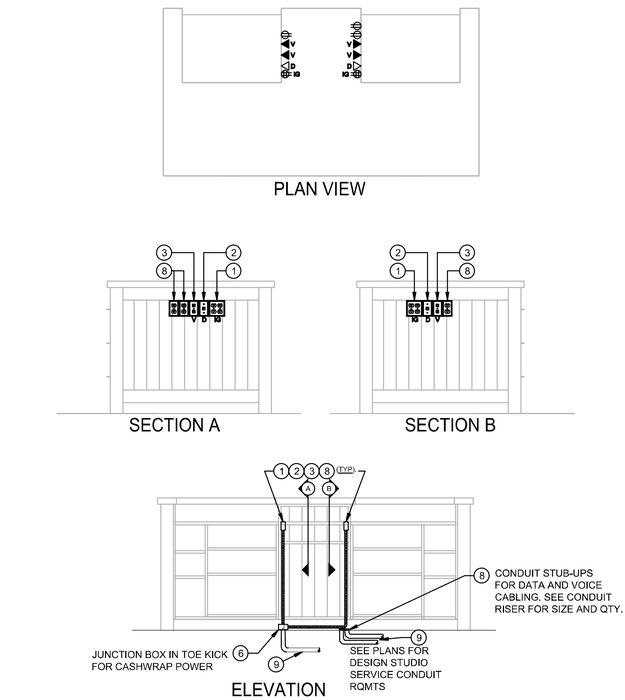
FOR LOW VOLTAGE CONDUITS, ELECTRICAL SUB-CONTRACTOR CUT CONDUITS SQUARELY, DE-BURR AND PROVIDE INSULATED BUSHING ON EACH CONDUIT END.

VERIFY LOCATIONS OF CASEWORK ACCESS PANELS WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN OF ALL ELECTRICAL DEVICES. DEVICE LOCATIONS MUST NOT CONFLICT WITH ACCESS PANELS.



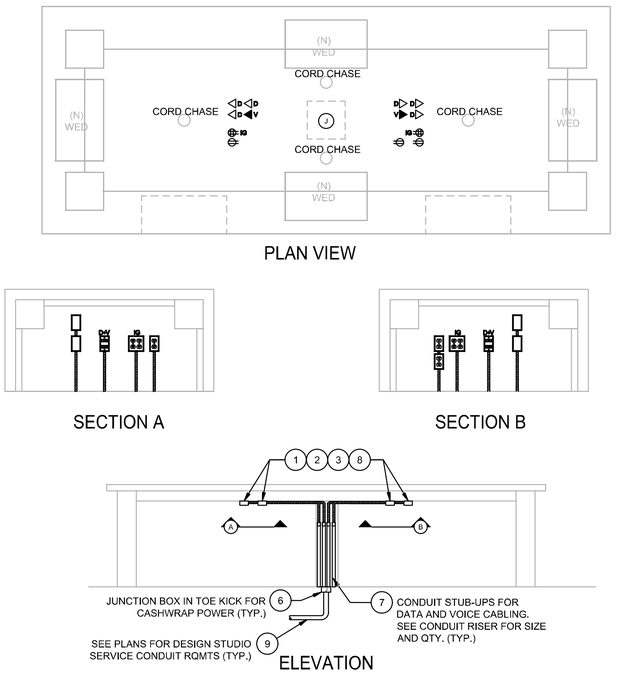
PB CASHWRAP DETAIL

2 | NOT TO SCALE



DESIGN STUDIO CASHWRAP DETAIL

3 | NOT TO SCALE



CONSULTATION TABLE DETAIL

1 | NOT TO SCALE

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.: 651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

△	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS: PERMIT

Digitally Signed
Michael Gath
73319
MICHAEL GATH
01-14-2022
Date Signed
REGISTERED Professional Engineer
ARIZONA, U.S.A.

Michael Gath, P.E. (AZ)
2022.01.14 13:19:56-06'00'

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SHEET NAME: ELECTRICAL DETAILS

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.: **E-202**

PANELBOARD LP1 - S1 NEMA ENCLOSURE 1 AIC RATING EXISTING
PANEL TYPE EXISTING MOUNTING SURFACE NOTES EXISTING PANEL TO REMAIN. EXISTING BREAKERS TO REMAIN UNLESS NOTED OTHERWISE.

CCT NO.	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KVA	PHASE	ACTUAL KVA	BKR OPT	BKR SIZE	LOAD DESCRIPTION	CCT NO.
1	LTG - STOCKROOM	20/1		**0.750**	A	**1.257**		20/1	LTG - SALES	2
3	LTG - STOCKROOM	20/1		**0.625**	B	**1.334**		20/1	LTG - SALES	4
5	LTG - STOCKROOM	20/1		**0.200**	C	0.625		20/1	LTG - STOCKROOM	6
7	LTG - BACKROOM	20/1		1.159	A	0.675		20/1	LTG - STOCKROOM	8
9	TRACK - SALES	20/1		0.510	B	0.475		20/1	LTG - STOCKROOM	10
11	TRACK - SALES	20/1		0.510	C	**1.800**	LC	20/1	**LTG - LIGHTING FOR SALE**	12
13	TRACK - SALES	20/1		0.680	A	**1.800**	LC	20/1	**LTG - LIGHTING FOR SALE**	14
15	TRACK - SALES	20/1		0.680	B	**0.312**		20/1	TRACK - SALES	16
17	TRACK - SALES	20/1		0.850	C	0.340		20/1	TRACK - SALES	18
19	TRACK - SALES	20/1		0.850	A	0.340		20/1	TRACK - SALES	20
21	TRACK - SALES	20/1		**0.048**	B	1.800		20/1	LTG - DISPLAY WINDOW	22
23	TRACK - SALES	20/1		**0.360**	C	**0.920**		20/1	LTG - DISPLAY WINDOW	24
25	TRACK - SALES	20/1		0.970	A	0.200		20/1	LTG - TIFFANY	26
27	TRACK - SALES	20/1		0.595	B	0.340		20/1	TRACK - SALES	28
29	TRACK - SALES	20/1		0.800	C	0.340		20/1	TRACK - SALES	30
31	TRACK - SALES	20/1		0.545	A	0.765		20/1	TRACK - SALES	32
33	TRACK - SALES	20/1		0.600	B	0.765		20/1	TRACK - SALES	34
35	TRACK - SALES	20/1		0.510	C	0.425		20/1	TRACK - SALES	36
37	TRACK - SALES	20/1		0.510	A	0.425		20/1	TRACK - SALES	38
39	TRACK - SALES	20/1		0.850	B	0.510		20/1	TRACK - SALES	40
41	TRACK - SALES	20/1		0.850	C	0.510		20/1	TRACK - SALES	42

REFER TO PANEL LP1 - SECTION 2 FOR LOAD CALCULATIONS

PANELBOARD LP1 - S2 NEMA ENCLOSURE 1 AIC RATING EXISTING
PANEL TYPE EXISTING MOUNTING SURFACE NOTES EXISTING PANEL TO REMAIN. EXISTING BREAKERS TO REMAIN UNLESS NOTED OTHERWISE.

CCT NO.	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KVA	PHASE	ACTUAL KVA	BKR OPT	BKR SIZE	LOAD DESCRIPTION	CCT NO.
43	LTG - EXTERIOR	20/1		0.500	A	**0.500**		20/1	LTG - SALES	44
45	LTG - CASEWORK	20/1		1.593	B	**0.500**		20/1	LTG - SALES	46
47	LTG - CASEWORK	20/1		1.294	C	0.724		20/1	LTG - CASEWORK	48
49	LTG - SIGNAGE	20/1		1.200	A	**1.800**	LC	20/1	**LTG - LIGHTING FOR SALE**	50
51	REC - PLUGMOLD	20/1		1.000	B	**1.800**	LC	20/1	**LTG - LIGHTING FOR SALE**	52
53	**TRACK - SALES**	20/1	LC	**0.384**	C	1.150		20/1	LTG - SALES	54
55	**TRACK - SALES**	20/1	LC	**0.480**	A	0.000		20/1	SPARE	56
57	LTG - SIGNAGE	20/1		1.200	B	0.850		20/1	TRACK - SALES	58
59	LTG - LANTERNS	20/1		0.200	C	0.140		20/1	LTG - SALES	60
61	LTG - CHANDELIER	20/1		1.500	A	1.500		20/1	LTG - SALES	62
63	LTG - CHANDELIER	20/1		**1.350**	B	0.720		20/1	REC - SALES	64
65	LTG - CHANDELIER	20/1		1.500	C	1.620		20/1	REC - FLOORBOXES	66
67	LTG - CHANDELIER	20/1		1.500	A	1.080		20/1	REC - ENTRY	68
69	LTG - CHANDELIER	20/1		1.500	B	1.080		20/1	REC - SALES	70
71	**REC - PLUGMOLD**	20/1		**1.200**	C	0.064		20/1	LTG - CASEWORK	72
73	SPARE	20/1		0.000	A	1.440		20/1	REC - FLOORBOXES	74
75	LTG - EXTERIOR	20/1		0.500	B	1.080		20/1	REC - SALES	76
77	LTG - SIGNAGE	20/1		1.200	C	**0.720**		20/1	**SPARE**	78
79	REC - SALES	20/1		0.180	A	1.080		20/1	REC - LIGHTING GALLERY	80
81	LTG - CASEWORK	20/1		0.250	B	1.080		20/1	REC - LIGHTING GALLERY	82
83	REC - FLOORBOX	20/1		0.250	C	1.080		20/1	REC - LIGHTING GALLERY	84

MAIN BREAKER VOLTAGE 208/120V PHASE 3 PANEL MAX AMPS 600A
MAINS 600A MCB WIRE 4 OPTIONS

LC = CONNECT TO FIRST AVAILABLE SPARE RELAY FOR LIGHTING CONTROL. NOTIFY ENGINEER IF THERE IS NO

ACTUAL CONNECTED KVA		N.E.C. DEMAND KVA
23.686	PHASE A	47.455
23.947	PHASE B	51.961
20.566	PHASE C	48.745
68.199	TOTAL	148.161

N.E.C. DEMAND AMPS: **411 AMPS**

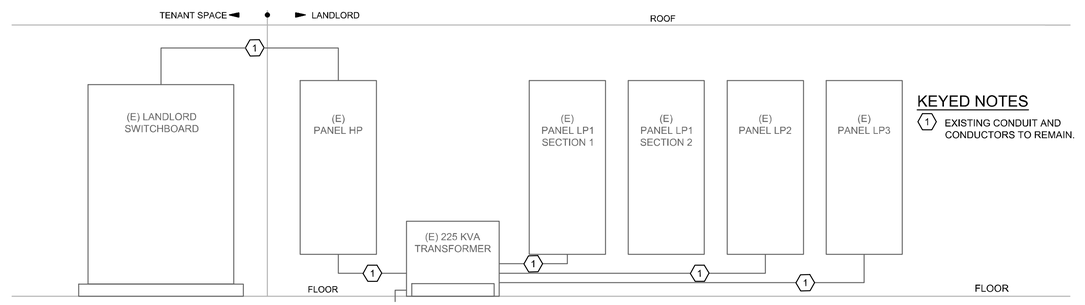
PANELBOARD LP2 NEMA ENCLOSURE 1 AIC RATING EXISTING
PANEL TYPE EXISTING MOUNTING SURFACE NOTES EXISTING PANEL TO REMAIN. EXISTING BREAKERS TO REMAIN UNLESS NOTED OTHERWISE.

CCT NO.	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KVA	PHASE	ACTUAL KVA	BKR OPT	BKR SIZE	LOAD DESCRIPTION	CCT NO.
1	REC - SALES	20/1		**0.720**	A	0.360		20/1	REC - SALES	2
3	DAMPER	20/1		0.200	B	0.900		20/1	REC - FLOORBOXES	4
5	REC - FLOORBOXES	20/1		**1.260**	C	0.180		20/1	REC - SALES	6
7	REC - PLUGMOLD	20/1		0.540	A	1.260		20/1	REC - SALES	8
9	REC - PLUGMOLD	20/1		1.080	B	1.080		20/1	REC - FLOORBOXES	10
11	REC - FLOORBOXES	20/1		1.620	C	1.440		20/1	REC - DISPLAY CEILING	12
13	REC - SALES	20/1		0.900	A	1.080		20/1	REC - DISPLAY CEILING	14
15	LTG - CASEWORK	20/1		1.000	B	1.080		20/1	REC - DISPLAY CEILING	16
17	REC - FLOORBOXES	20/1		1.269	C	1.080		20/1	REC - EXTERIOR	18
19	MOTOR - SUMP PUMP	20/1		0.720	A	0.360		20/1	REC - DISPLAY ROOM	20
21	ODU - 1	35/2		2.298	B	0.666		20/1	EF - 2	22
23				2.298	C	1.200		20/1	HAND DRYER	24
25	REC - ELEVATOR PIT	20/1		0.180	A	0.360		20/1	REC - RESTROOM	26
27	ELEVATOR CONTROLS	20/1		0.200	B	0.800		20/1	REC - EMPLOYEE BREAK	28
29	LTG - ELEVATOR	20/1		0.200	C	1.500		20/1	MICROWAVE	30
31	REC - ELEVATOR	20/1		0.180	A	0.800		20/1	REFRIGERATOR	32
33	FIRE ALARM CONTROL PANEL	20/1		0.200	B	**0.540**		20/1	**REC - FLOORBOXES**	34
35	FIRE ALARM CONTROL PANEL	20/1		0.200	C	1.500		20/1	WATER HEATER	36
37	IDU	20/1		0.240	A	**0.900**		20/1	REC - STOCK	38
39	REC - ROOF	20/1		0.540	B	0.360		20/1	REC - STOCK	40
41	HAND DRYER	20/1		1.200	C	0.666		20/1	EF - 1	42

MAIN BREAKER VOLTAGE 208/120V PHASE 3 PANEL MAX AMPS 100A
MAINS 100A MCB WIRE 4 OPTIONS

ACTUAL CONNECTED KVA		N.E.C. DEMAND KVA
8.600	PHASE A	6.884
10.944	PHASE B	9.594
15.613	PHASE C	13.945
35.157	TOTAL	30.423

N.E.C. DEMAND AMPS: **84 AMPS**



ONE-LINE RISER DIAGRAM (FOR REFERENCE ONLY)

1
NOT TO SCALE

KEYED NOTES

1. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.

PANELBOARD HP NEMA ENCLOSURE 1 AIC RATING EXISTING
PANEL TYPE EXISTING MOUNTING SURFACE NOTES EXISTING PANEL TO REMAIN. EXISTING BREAKERS TO REMAIN UNLESS NOTED OTHERWISE.

MAIN BREAKER VOLTAGE 480/277V PHASE 3 PANEL MAX AMPS 500A
MAINS 500A MCB WIRE 4 OPTIONS

CCT NO.	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KVA	PHASE	ACTUAL KVA	BKR OPT	BKR SIZE	LOAD DESCRIPTION	CCT NO.
1	XFMR	350/3		41.532	A	14.404		100/3	ELEVATOR	2
3				41.532	B	14.404				4
5				41.532	C	14.404				6
7	HP - 1	35/3		7.174	A	7.174		35/3	HP - 2	8
9				7.174	B	7.174				10
11				7.174	C	7.174				12
13	HP - 3	25/3		5.263	A	7.174		35/3	HP - 4	14
15				5.263	B	7.174				16
17				5.263	C	7.174				18
19	HP - 5	35/3		7.174	A	4.864		25/3	HP - 6	20
21				7.174	B	4.864				22
23				7.174	C	4.864				24
25	SPACE				A				SPACE	26
27	SPACE				B				SPACE	28
29	SPACE				C				SPACE	30
31	SPACE				A				SPACE	32
33	SPACE				B				SPACE	34
35	SPACE				C				SPACE	36
37	SPACE				A				SPACE	38
39	SPACE				B				SPACE	40
41	SPACE				C				SPACE	42

ACTUAL CONNECTED KVA		N.E.C. DEMAND KVA
94.759	PHASE A	94.759
94.759	PHASE B	94.759
94.759	PHASE C	94.759
284.277	TOTAL	284.277

N.E.C. DEMAND AMPS: **423 AMPS**

PANELBOARD LP3 NEMA ENCLOSURE 1 AIC RATING EXISTING
PANEL TYPE EXISTING MOUNTING SURFACE NOTES EXISTING PANEL TO REMAIN. EXISTING BREAKERS TO REMAIN UNLESS NOTED OTHERWISE.

CCT NO.	LOAD DESCRIPTION	BKR SIZE	BKR OPT	ACTUAL KVA	PHASE	ACTUAL KVA	BKR OPT	BKR SIZE	LOAD DESCRIPTION	CCT NO.
1	REC - CASHWRAP	20/1	LO	**0.360**	A	0.180		20/1	REC - WIRELESS	2
3	REC - CASHWRAP	20/1	LO	**0.360**	B	**0.000**		20/1	**SPARE**	4
5	REC - CASHWRAP	20/1	LO	**0.360**	C	0.180		20/1	REC - OFFICE	6
7	**REC - MWS / PRINTER**	20/1	LO	**0.360**	A	0.180		20/1	REC - OFFICE	8
9	**REC - HOLIDAY POS**	20/1		**0.180**	B	0.180		20/1	REC - OFFICE	10
11	**REC - RESOURCE WALL IG**	20/1	LO	**0.360**	C	0.360		20/1	REC - SOUND SYSTEM	12
13	REC - CASHWRAP	20/1	LO	**0.360**	A	0.360		20/1	REC - SOUND SYSTEM	14
15	REC - CASHWRAP	20/1		**0.720**	B	0.360		20/1	REC - SHIP / REC	16
17	TRACK - SALES	20/1		1.650	C	0.720		20/1	REC - SHIP / REC	18
19	TRACK - SALES	20/1		0.800	A	0.720		20/1	REC - SHIP / REC	20
21	**REC - CASHWRAP**	20/1		**0.360**	B	0.180		20/1	REC - SHIP / REC	22
23	**REC - CASHWRAP**	20/1		**0.360**	C	0.360		20/1	REC - CUSTOMER SERVICE	24
25	**REC - CPU**	20/1		**0.360**	A	0.180		20/1	REC - CUSTOMER SERVICE	26
27	**REC - PRINTER**	20/1		**0.360**	B	**0.720**		20/1	**REC - CONSULT TABLE**	28
29	REC - PHONEBOARD IG	20/1		0.360	C	**1.440**	LO	20/1	**REC - CONSULT TABLE IG**	30
31	REC - PHONEBOARD IG	20/1		0.360	A	1.000		20/1	LIGHTING CONTROL PANEL	32
33	REC - WRAP ROOM	20/1		0.180	B	**0.000**		20/1	**SPARE**	34
35	REC - WRAP ROOM	20/1		0.360	C	2.080		20/2	INSTA-HOT WH-1	36
37	REC - PLUGMOLD	20/1		0.180	A	2.080				38
39	**REC - BOPIS DESK**	20/1		**0.720**	B	2.080		20/2	INSTA-HOT WH-2	40
41	**REC - BOPIS DESK**	20/1		**0.720**	C	2.080				42

MAIN BREAKER VOLTAGE 208/120V PHASE 3 PANEL MAX AMPS 100A
MAINS 100A MCB WIRE 4 OPTIONS

ACTUAL CONNECTED KVA		N.E.C. DEMAND KVA
7.480	PHASE A	7.713
6.400	PHASE B	5.840
11.390	PHASE C	12.017
25.270	TOTAL	25.570

N.E.C. DEMAND AMPS: **71 AMPS**

PANEL SCHEDULE LEGEND

BREAKER OPTIONS	
LO	HANDLE LOCK-ON DEVICE
LF	HANDLE LOCK-OFF DEVICE
PA	HANDLE PADLOCK DEVICE
ST	SHUNT TRIP BREAKER
AS	POWER LINK AS BREAKER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER BREAKER
HACR	HEATING, A/C, & REFRIGERATION RATED BREAKER
AUX	AUXILIARY CONTACTS

NOTE: IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM, REGUARDLESS OF CIRCUITING INDICATED.

1 NOTE: PER NEC 408.4 (A): "EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE."

ELECTRICAL LOAD SUMMARY

DESCRIPTION	ACTUAL CONNECTED KVA	DEMAND FACTOR	ACTUAL DEMAND KVA	N.E.C. CONNECTED KVA	N.E.C. DEMAND FACTOR	N.E.C. DEMAND KVA
TRACK LIGHTING	20	1.25	24.9	630 **** 75.6 KVA	1.25	94.5
GENERAL LIGHTING	38.3	1.25	47.9	38.3	1.25	47.9
SHOW WINDOW LIGHTING ALLOW.	------ ***	1.25	------ ***	0 FT 0 KVA	200W / LF x1.25	0
GEN. PURPOSE RECEPTACLE	47.2	1.0 < 10KVA 0.5 > 10KVA	28.6	47.2	1.0 < 10KVA 0.5 > 10KVA	28.6
MOTOR(S)	45.3	1.0 + 25% LARGEST	45.3	45.3	1.0 + 25% LARGEST	45.3
FIXED ELECTRIC SPACE HTG.	116 *	1.0	116 *	116 *	1.0	116 *
AIR CONDITIONING EQUIPMENT	4.6 *	1.0 + 25% LARGEST **	4.6 *	4.6 *	1.0 + 25% LARGEST **	4.6 *
ELECTRIC WATER HEATER	9.82	1.25	12.3	9.82	1.25	12.3
MISCELLANEOUS LOADS	6.74	1.0	6.74	6.74	1.0	6.74
TOTAL	284		282	339		352

NOTES:
* USE GREATER VALUE OF THE TWO CATEGORIES WHERE LOADS ARE NON-CONCURRENT.
** 125% OF LARGEST COMPRESSOR MOTOR IN SYSTEM. APPLIES TO ONLY ONE UNIT.
*** ACTUAL SHOW WINDOW LIGHTING IS INCLUDED IN TRACK AND GENERAL LIGHTING SECTIONS.
**** TOTAL SUM OF CURRENT LIMITERS IN AMPS

MINIMUM FEEDER = 352 KVA x 1000 / (480 x 1.73) = 423 A AMPACITY

ELECTRICAL SERVICE AMPACITY = 500 A @ 480V, 3 PH

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaec.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.: 651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
1	01/13/22	REVISION 1

STATUS: PERMIT

Digitally Signed
Registered Professional Engineer
73819
MICHAEL GATH
01-14-2022
Date Signed
ARIZONA, U.S.A.
Michael Gath, P.E. (AZ)
2022.01.14 13:19:34-06'00'

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME: ONE-LINE RISER & PANEL SCHEDULES

DATE: 01/13/22 PROJECT NO.: 33126
DRAWN: SCALE: AS NOTED

SHEET NO.: E-401

ELECTRICAL SPECIFICATIONS

SECTION 16050: GENERAL ELECTRICAL

The Drawings, General Conditions, Supplementary Conditions, and Division 1 apply to work under this Section.

PART 1 GENERAL:

1.01 DESCRIPTION

A. General: Furnish all labor, materials, apparatus, tools, equipment, transportation, temporary construction and special or occasional services as required to make a complete working electrical installation, as shown on the drawings or described in these specifications.

B. Work included:
1. Installation and assembly of Owner furnished lighting fixtures and lamps.
2. Grounding.
3. Installation of duct smoke detectors.
4. Provide panelboards and overcurrent devices.
5. Branch circuit wiring.
6. Exit signs and emergency lighting system.
7. Installation of convenience outlets.
8. Installation of telephone and data outlets and raceways.
9. Furnishing, support and installation of new transformer.
10. Rough-in wiring for display case lighting.
11. Demolition and removals.
12. Lighting controls, and time switches.
13. Connections of, and power wiring to, HVAC equipment:
14. Conduit for data, telephone and alarm systems.

C. Related Work Specified Elsewhere:

1. Perform the following work, in accordance with appropriate sections of the specifications cited, where and as necessary to furnish a complete, working electrical installation.

a. Concrete:	Division 3
b. Painting:	Division 9
c. Door hardware:	Division 11
d. Mechanical:	Division 15
e. Food Service Equipment:	Division 15

D. Related Work Not Included in Contract:

1. Installation of primary and secondary utility cables.
2. Installation of telephone instruments and equipment.
3. Installation of data cable or computer equipment.
4. Installation of security alarm equipment.

1.02 CODES AND STANDARDS:

A. Specific

1. Comply with all codes enforced by the state and local jurisdictions.

2. Equipment and materials specified under this division shall conform to the following standards where applicable.

a. UL Underwriters' Laboratories.
b. ASTM American Society for Testing Materials.
c. CBM Certified Ballast Manufacturers.
d. ANSI American National Standards. Institute.
e. NEMA National Electrical Manufacturers Association

1.03 DRAWINGS:

A. Layout: General layout shown on the drawings shall be followed except where other work may conflict with the drawings.

B. Accuracy:

1. Drawings for the work under this Section are diagrammatic and complete details of the building which affect the electrical installationare not shown. Coordinate with drawings of all other trades.

2. Contractor shall verify lines, levels and dimensions shown on the Drawings and shall be responsible for the accuracy of the setting out of work and for its strict conformance with existing conditions at the site.

1.04 SUBSTITUTIONS: Substitutions of specified devices and equipment shall not be allowed.

1.05 SUBMITTALS:

A. General: Refer to the General Conditions, Supplementary General Conditions and Division 1 for requirements.

B. Format: Furnish submittal data neatly bound in an 8-1/2" X 11" folder or binder with a table of contents listing in order of specification section and paragraph number.

C. Submittals shall consist of detailed shop drawings, specifications, catalog "cuts" and data sheets containing physical and dimensioned information, performance data, electrical characteristics, materials used in fabrication, material finish and those optional accessories which are included and those which are excluded.

D. Each submittal shall be thoroughly reviewed by the Contractor. The cover letter accompanying submittal letter shall list in full the items and data submitted and shall contain a statement acknowledging that the Contractor has performed a detailed review of the submittal documents prior to submission. Failure to comply with this requirement shall constitute grounds for return of data for resubmission without review.

E. Contractor agrees that Shop Drawing submittals processed by the engineer are not change orders, that the purpose of Shop Drawing submittals by the Contractor is to demonstrate to the engineer that the Contractor understands the design concept, that he demonstrates his understanding by indicating which equipment and material he intends to furnish and install and by detailing the fabrication and installation methods he intends to use.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING: Equipment and materials shall be properly stored and adequately protected and carefully handled to prevent damage before and during installation. Equipment and materials shall be handled, stored, and protected in accordance with the manufacturers's recommendations and as approved by the Owner's Representative. Electrical conduit shall be stored to provide protection from the weather and accidental damage. Plastic conduit shall be stored on even supports and in locations not subject to direct sun rays or excessive heat. Cables shall be sealed, stored and handled carefully to avoid damage to the outer covering or insulation and damage from moisture and weather. Damaged or defective items, in the opinion of the Owner's Representative, shall be replaced with new items at the expense of the contractor.

1.07 PERMITS AND FEES: Provide, procure and pay for all permits, licenses and fees required to carry on and complete the work.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION:

3.01 TESTS:

A. Tests shall be conducted during the construction period and at completion to determine conformity with applicable Codes and with these Specifications. Tests shall be performed in the presence of the Architect and shall include, but are not limited to, the following:

1. Insulation Resistance: Perform 500-volt D.C. tests for one minute on all feeder conductors, including the neutral, and make a typed record of all readings to be included in the maintenance instructions. Repair or replace circuits showing less than 40 megohms resistance to ground. Make tests using Biddle Insulation Resistance Megger, or equal.

2. Ground Resistance: Test ground resistance per IEEE Standard No. 81.

3. Circuits Continuity: Test all feeder and branch for continuity. Test all neutrals for improper grounds.

4. Equipment Operations: Test lighting circuits for correct operation through their control devices. Test electric baseboard heaters for correct operations through their control relays/thermostats.

5. Lighting Control Circuits: Perform operation tests for all lighting circuits.

6. Product Failure: Any products which fail during the tests or are ruled unsatisfactory by the Owner's Representative shall be replaced, repaired, or corrected as prescribed by the Owner's Representative at the expense of the Contractor. Tests shall be performed after repairs, replacements or corrections until satisfactory performance is demonstrated.

7. Physical Inspection of Electrical Equipment and Cables: Inspection shall be made of all equipment to insure proper assembly and construction.

3.02 INSTRUCTIONS AND MANUALS

A. Refer to Division 1.

B. At the time of completion, an adequate period shall be allotted by the contractor for instruction of building operating and maintenance personnel in the use of all systems. All personnel shall be instructed at one time, the Contractor making all necessary arrangements with manufacturers's representatives. The equipment manufacturer shall provide product literature and application guides for the Users' reference.

C. Costs, if any, for the above service shall be paid by the Contractor.

3.03 PROJECT RECORD DOCUMENTS (AS-BUILT)

A. Provide Project Record Drawings and Specifications as required by other Sections of Specifications and as required herein. Such drawings shall fully represent installed conditions including actual location of outlets, correct conduit and wire sizing as well as routing, revised fixture scheduling listing the manufacturer and products actually installed.

B. All changes to drawings shall be made by qualified draftspersons to match existing line work and lettering as closely as possible.

3.04 WORKMANSHIP

A. Preparation, handling and installation shall be in accordance with manufacturer's written instructions and technical data particular to the product specified and/or approved except as otherwise specified. Coordinate work and cooperate with other in furnishing and placing this work. Work to approved shopdrawings for work by others and to field measurements as necessary to properly fit the work.

B. Conform to the National Electrical Contractor's Association Standard of Installation for general installation practice.

3.05 SCHEDULE OF WORK: Arrange work to conform to the schedule which has been established for the progress of the work. Advise regarding shipping schedule of major equipment.

3.06 SUPERVISION: Contractor shall personally or through an authorized and competent representative constantly supervise the work from beginning to completion and, within reason, keep the same workmen and foreman on the project throughout the project duration.

3.07 PROTECTION: Keep conduits, junction boxes, outlet boxes, and other openings closed to prevent entry of foreign matter. Cover fixtures, equipment and apparatus and protect against dirt, paint, water, chemical or mechanical damage, before and during construction period. Restore to original condition any fixture, apparatus, or equipment damaged prior to final acceptance. Protect bright finished surfaces and similar items until in service. No rust or damage will be permitted.

3.08 SPECIAL TOOLS: All special tools for proper operation and maintenance of the equipment provided under this section shall be delivered to the Owner's representative.

3.09 CUTTING AND PATCHING

A. Install all required sleeves, forms and insets before walls or partition are built. Cutting and patching of walls, partitions, ceilings and floor necessary for reception of work, caused by failure to provide or properly located sleeves, forms and insets, incorrect location of work or failure to cooperate with other trades, shall be done at expense of trade responsible.

B. No cutting of finished or structural work may be done without acceptance. When necessary to have finished material or stuctural work cut, furnish necessary drawings to trade whose materials are out to be cut.

3.10 CLEARANCES: Provide working clearance in front of, in back of, and to sides for all electrical equipment as required by National Electrical Code Article 110.

3.11 DEMOLITION: Demolition and removal of existing electrical services to the existing tenant space to be by the Contractor.

3.12 ACCESS PANEL

A. Elec. contractor shall provide all access panels required for code required access to electrical devices and junction boxes.

B. Access panels shall not be allowed in Sales Area ceiling or walls. Devices and equipment that normally would be concealed from view shall be located at normally accessible areas such as above ceiling, near HVAC diffusers or in back rooms in accessible ceiling areas.

END OF SECTION

SECTION 16100: BASIC MATERIALS AND METHODS

The General Conditions, Supplementary Conditions, and Division 1 apply to work under this Section.

PART 1 GENERAL

1.01 DESCRIPTION

A. Work specified in this section encompasses products, assemblies and basic installation methods required for electrical project systems specified under this Division and includes, but is not limited to:

1. Conduit, raceways, and fittings.
2. Wire and cables.
3. Wire connections and devices.
4. Outlet boxes.
5. Pull and junction boxes.
6. Switches and receptacles.
7. Device plates.
8. Overcurrent protective devices.
9. Telephone terminal backboard.
10. Door buzzer and pushbutton system.
11. Background sound system equipment installation and wiring.
12. Empty raceway provisions for burglar alarm and security system detection units and switches.
13. Panelboards and associated equipment

B. Work Not Included:

1. Background sound system equipment furnished by Brinkman Audio.
2. Burglar alarm and security system equipment and wiring.

1.01 SUBMITTALS

A. Submit in conformance with the requirements of Section 16050 the following items:

1. Switches, receptacles and device plates.
2. Conductors and cables.
3. Overcurrent protective devices.
4. Raceways.
5. Door buzzers and pushbutton.
6. Panelboards and transformer

PART 2 PRODUCTS

2.01 CONDUIT AND FITTINGS

A. Rigid Steel Conduit
1. Conduit, rigid steel: full weight, threaded, hot-dip galvanized, inside enameled, conforming to ANSI C80.1.
2. Three-piece couplings: electroplated, cast malleable iron. Efcor 165 series, O.Z./Gedney 4-50 series or equal.
3. Threadless couplings: electroplated, cast malleable iron, with integral conduit stop. Efcor 1760.
4. Threadless connectors: electroplated, cast malleable iron, on threaded male hub plastic insulated throat rated 90 degrees C minimum. Efcor 1750B series, O.Z./Gedney 31-050 1T series or equal.
5. Insulated bushings: threaded polypropylene or thermosetting phenolic rated 150 degrees C minimum.
6. Insulated grounding bushings: threaded cast malleable iron body with insulated throat and steel, "lay-in" ground lug with compression screw. O.Z./Gedney BLG series, Thomas & Betts 3870 series or equal.
7. Insulated metallic bushings: threaded cast malleable iron body with plastic insulated throat rated 105 degrees C. O.Z./Gedney Type B, Thomas & Betts 1222 series or equal.

B. Electrical Metallic Tubing (EMT)
1. Conduit: Shall be formed of cold rolled strip steel, electrical resistance welded continuously along the longitudinal seam and hot-dip galvanized after fabrication. Conduit shall conform to ANSI C80.3 specifications and shall meet U.L. requirements.
2. Couplings: Electroplated, cast malleable iron, gland compression type, U.L. listed rain and concrete tight through 1-1/4 inch trade size, O.Z./Gedney 6050W series, 760 series or equal. Set screw type couplings may be used in dry locations, Efcor O.Z./Gedney 5050 series or equal.
3. Connectors: Gland compression type with cast malleable iron body with male hub and insulated plastic throat 150 degrees C. temperature rated. O.Z./Gedney 4050 series or equal.

C. Flexible Metallic Conduit
1. Conduit: Shall be fabricated in continuous lengths from galvanized steel strip, spirally wound and formed to provide an interlocking design. 6' MAX. LENGTH Flexible conduit is not permitted in walls.
2. Fittings: Connectors shall be made of the screw clamp with cast malleable iron bodies and threaded male hubs with insulated throats.
2. Flexible conduit shall only be allowed in the lengths and for applications as allowed by the jurisdiction. Contractor shall be responsible for correcting installation that is not in compliance with the jurisdictional requirements

D. Liquid Tight Flexible Metallic Conduit
1. Conduit: Anaconda Type U.A., Coleman Type Uxt1 or equal.
2. Fittings: Connector body and gland nut shall be of cadmium plated cast malleable iron, with insulated throat, MAX. 24", T & B 5331 series, O.Z./ Gedney 4Q-38-1T series,or equal.

E. Minimum acceptable conduit size shall be 1 inch.

C. MC Cabling
1. Metal clad cable shall be constructed in strict accordance with UL 1569. The cable shall bear the UL label and manufacturer's "E" number
2. Acceptable Sizes for MC Cable: 12/2 through 12/9; 10/2 through 10/ 9 and shall contain copper conductors only, no aluminum allowed
3. Manufacturer - AFC or equal
4. Conductors: Copper; solid or stranded
5. Insulation: Thermoplastic (THHN) or equivalent; voltage rating 600V; temperature rating 90°C
6. Armor: Aluminum; corrugated or smooth tube
7. Not used
8. Cable shall be fire rated, 1 hour minimum or higher as required by specific installation area, UL listed, rated for use in cable tray, and for use in environmental air plenums
9. Connectors: Furnish only UL listed MC connectors manufactured for MC cable. Connectors shall be steel; die cast not allowed.
10. MC Cabling Supports: Caddy, or approved equal. All supports shall be U.L. listed for the application, and shall comply with the NEC. Tie-wraps and staples are not acceptable. Utilize the following:
1. Snap-in supports to framing stud, Caddy #MAC2.
2. Strap to framing stud, Caddy #FXC20
3. Drop-wire supports, Caddy #PCS1.
4. Cable snap clip for attachment to structure, Caddy #SC.
5. Cable support for attachment to framing stud, Caddy #CJ6.
6. Support and anti-rattle clip for MC through studs, Caddy #781.
11. MC Cabling shall only be allowed for applications as allowed by the jurisdiction and the landlord. Prior to installation, contractor shall confirm with both agencies, that MC is permitted. For installations that have not been approved by both agencies, the contractor shall be responsible for the removal of the MC and replacement with EMT, at the expense of the contractor.
12. MC cabling shall not be allowed to run into the panelboards. Transition to EMT by means of a wireway above panrlboards, and run branch circuits in EMT from wireway to panelboards - no exceptions
13. Contractor's bid shall reflect costs for utilizing MC Cabling and/or EMT installation as permitted by the jurisdiction and lanldord.
14. MC cable shall not be permitted in areas open to public view.

2.02 WIRE AND CABLE

A. General

1. Acceptable manufacturers: General Electric Co., Rome Cable, Southwire, Triangle, PWC Inc., or equal.

2. Conductor material: All wire and cable shall be insulated copper conductors for all wire sizes. Aluminum wire and cable shall not be used.

3. Insulation: Insulation shall be THWN-THHN for wire sizes through size 1/0 AWG. For larger wire sizes insulation shall be THWN, XHHW, THW or as required to suit application.

4. Fixture wire: Type AF.

5. Minimum conductor size:
Power and lighting branch circuits: #12 AWG
Signal and control circuits under 100 volts: #14 AWG.
Any 120V./ 20A. circuits over 75 L.F. must be: #10 AWG.

6. Color code. Color code all conductors in accord with NEC as follows:

	120/208V	277/480V
Phase A	Black	Brown
Phase B	Red	Orange
Phase C	Blue	Yellow
Neutral	White	Gray

2.03 OUTLET BOXES AND COVERS

A. Standard Outlet Boxes: Galvanized, one-piece, drawn steel, knock-out type of size and configuration best suited to the application indicated on the plans. Minimum box size, 4 inch square by 1-1/2 inch deep.

B. Switch Boxes: Two inch by 3-inch long, galvanized steel switch boxes shall be used only for the installation of single switches, Install multiple switches in standard gang boxes with raised device covers suitable for the application indicated.

2.04 SWITCHES AND RECEPTACLES

A. General: Color of devices shall be white unless otherwise noted.
Orange for dedicated I.G. receptacles .

1. All general purpose 20 ampere, 125-250 volt receptacles and 120-277 volt switches shall conform to NEMA WD 1 and applicable U.L. tests.

B. Receptacles:

1. Ground fault circuit interrupter receptacle: NEMA type 5-20R LEVITON #6898-HG or equal.

2. Duplex receptacles: NEMA type 5-20R, heavy duty specification grade, side wired only, LEVITON 5243 or equal.

3. Cash register receptacles: NEMA type 5-20R, heavy duty specification grade, side wired only, Hubbell #IG-5362, provided with green insulated ground wire, and with engraved cover plate ""For Cash Registers Only"".

C. Switches: Twenty ampere, 120-277 volts, fast make-slow break, quiet type switch with silver cadmium alloy contacts, binding head terminal screws, side wired only. All switches shall be white in color.

1. Single pole, single throw, LEVITON #1221 or equal.

2. Three-way, LEVITON #1223 or equal.

2.05 DEVICE PLATES

A. Flush Device Plates: Plates shall be smooth plastic, color to match device, LEVITON #8600 series or equal.

B. Surface Mounted Devices, indoor: Galvanized metal to fit box.

C. Outdoor, Weatherproof: Die cast aluminum construction, corrosion resistant, heavy duty, hinged cover flap, and gasket, LEVITON #6196, horizontal mounting.

2.06 DISCONNECT SWITCHES

A. Switch Interior: Dead-front construction with hinged arc suppressor and switch blades which are fully visible in the "OFF"" position and with door open.

B. Switch Mechanism: Quick-make and quick-break operating handle and mechanism with dual cover interlock to prevent unauthorized opening of the switch door in the "ON" position or closing the switch mechanism while the door is open.

C. Ratings: Switches shall be horsepower rated for the operating voltage and with fused or non-fused arrangements as shown on the drawings.

D. Enclosures: NEMA 1, code gauge sheet steel with hinged cover, or NEMA 3R as shown on Drawings, and as required by application.

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Digitally Signed
Registered Professional Engineer
75819
MICHAEL GATH
01-14-2022
Date Signed
ARIZONA, U.S.A.
Michael Gath, P.E. (AZ)
2022.01.14 13:19:06-06'00'

FIELD VERIFICATION:
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SHEET NAME:
ELECTRICAL SPECIFICATIONS

DATE: 01/13/22
PROJECT NO : 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
E-901

ELECTRICAL SPECIFICATIONS

(continued)

2.07 TRANSFORMERS

A. Transformers shall be indoor type, self cooled, 480V, three-phase, dual winding, fully enclosed, ventilated, general purpose dry type, 480 volt primary, 120/208 volt secondary, 60 hertz, equipped with two 2 1/2% full capacity taps above and below rated voltage and shall be of the KVA rating shown on the drawings.
B. Transformers shall have copper or aluminum windings Class 'H' insulation group, with temperature rise, when operated continuously at full load and rated frequency, not exceeding 150 degree C. rise over 40 degree C. ambient, unless mentioned otherwise on the one line diagram.
C. Transformer shall have a minimum of 10% overload capacity at rated voltage and shall have a 10 KV BIL rating.
D. Sound level at any load shall not exceed 45 dB when tested in a room with ambient sound level not exceeding 24 dB. Ecessively noisy transformers shall be replaced with new at the expense of the contractor.
E. Transformer impedance shall not be less than 4% nor greater than 5%. Transformers shall conform to NEMA TRI-1974, NEC 450-21 and all applicable state and local codes.
F. Transformer shall not contain any PCB's (Polychlorinated Biphenyls).
G. Transformer size shall fit space allocated per Drawings.
H. Manufacturer shall be GE, Siemens, Cutler Hammer, or Square D
I. Electrical Contractor shall provide transformer as indicated on the plans

2.08 PANELBOARDS

A. Ratings: See panel schedules.
B. Finish: All painted steel work shall be treated with a primer coat and finish coat of the manufacturer's standard gray color or ANSI 61.
C. Electrical Contractor shall provide all panelboards as indicated on the plans.
D. Panelboards shall be keyed alike, and arrangened to fit in the space indicated on the plans
E. Bussing
1. Bussing shall be rectangular cross section full length tin plated
2. Each panelboard shall be equipped with a ground bus secured to the interior of the enclosure. The bus shall be equal to the panelboard neutral bus and shall have a seperate lug for each ground conductor. Not more than one conductor shall be installed per lug.
3. Each isolated ground panelboard shall be equipped with a isolated ground bus secured to the interior of panelboard with a separate isolated ground wire (sized per the NEC) run back to the grounding electrode
F. Manufacturer shall be GE, Siemens, Cutler Hammer, or Square D
G. Prior to ordering, the Electrical Contractor shall confirm with the serving Utility and the Landlord, the available fault current level at the tenant disconnect. Tenant panelboards shall be ordered with an AIC rating greater than the available fault current level. If contractor does not confirm fault current level, equipment fully rated at 65k AIC minimum shall be required.

2.09 PROTECTIVE DEVICES

A. Circuit Breakers: Molded case, bolt-on, thermal magnetic type, 40 degrees C. ambient temperature compensated, fixed mounting, with quick-make and quick-break switching mechanism mechanically trip-free from the operating handle.
B. Ratings: Refer to drawings and panel schedules for trip frame and poles required. Equipment shall be fully rated based on available fault current level.
C. Manual motor starters: Fractional H.P. 1 phase motors shall be protected by thermal O.L. relay integral with the disconnect: "Motor-Minder", or equal.

2.10 ELECTRICAL SUPPORTING DEVICES

A. Conduit Straps: Hot-dip galvanized, cast malleable iron, one hole type strap with cast clamp-backs and spacers as required. O.Z./Gedney #14-50G strap and #141G spacer, Refcor #231 strap and #131 spacer, or equal.
B. Construction Channel: 1-1/2 inch by 1-1/2 inch 12 gauge galvanized steel channel with 17/32 inch diameter bolt holes, 1-1/2 inches on center, in base of the channel. Kindorf 905 series, Unistrut P-1000-HS, or equal.
C. Fasteners (General): Wood screws for fastening to wood. Machine screws for fastening to steel. Toggle bolts for fastening to hollow concrete block, gypsum board or plaster wall. Expansion anchors for attachments to pre-poured concrete.

2.11 IDENTIFYING DEVICES

A. Panelboard Directories: Shall be typewritten, arranged in numerical order and shall show the number of the circuit is indicated. The room numbers used shall be verified with the Owner and shall not necessarily be those used in the drawings. Mount directories in a 6" x 8" metal frame under plexiglass inside each panelboard.
B. Wire & Terminal Markers: Self-adhering, pre-printed vinyl with self-laminating wrap ground strip Brady B191 series, Thomas & Betts WSI series, or equal.

2.12 PLYWOOD BACKBOARDS

A. Where indicated for telephone or communication system terminals, or for motor control or other equipment assemblies, provide backboards of size indicated.
1. Use Douglas Fir plywood, exterior grade with "B" face, prime and finished painted.
2. Unless otherwise indicated, provide 3/4 inch thick plywood.
3. All plywood shall be fire resistant.

2.13 GROUNDING

A. Enclosures of equipment, raceways, and fixtures shall be permanently and effectively grounded. Provide code-sized, (unless otherwise indicated) copper, insulated green equipment ground with all branch and feeder circuit runs. Equipment ground shall originate at panelboard ground bus and shall be bonded to all switch and receptacle boxes and electrical equipment enclosures.
B. Building services shall be grounded to building steel and to cold metallic water piping.
C. Isolated ground conductors shall terminate on isolated ground bus and receptacle isolated ground lugs only.

2.14 LIGHTING CONTROL SYSTEM

A. Provide a complete installation of the owner furnished lighting control system.

PART 3 EXECUTION

3.01 CONDUIT AND RACEWAY APPLICATIONS

A. Rigid Steel Conduit: For all exposed and U/G conduit exposed to mechanical damage. Minimum size is 3/4".
B. Electrical Metallic Tubing (EMT): Interior power and lighting branch circuits where run concealed above suspended ceiling, in stud walls, furred spaces, and where not exposed to mechanical damage, or above 6' from floor.
C. Flexible Metallic Conduit: In dry locations connection to transformers, (6' MAX.), vibrating equipment (24" MAX.), and to recessed lighting fixtures.
D. Liquid-Tight Flexible Metallic Conduit: In damp and wet locations for connection to all pump motors, solenoid valves, HVAC equipment and similar devices shall be made using liquidtight flexible metallic conduit. Provide separate ground wire independent of conduit, run inside conduit and bonded at both ends to enclosures. Maximum length of 24 inches.

3.02 CONDUIT INSTALLATION

A. General
1. Conduit system shall be concealed unless exposed work is clearly called for on drawings.
2. Conduits shall be tightly covered and well protected during construction using metallic bushings and bushing "pennies" to seal open ends.
3. In all empty conduits or ducts, install a 200-pound tensile strength polyethylene pulling rope.
4. Conduit systems shall be electrically continuous throughout. Install code size, insulated, copper, green grounding conductor in all conduit runs pulled with phase and netural conductors.

B. Layout
1. Locations of conduit runs shall be planned in advance of the installation and coordinated with the ductwork, plumbing, ceiling and wall construction in the same areas and shall not unnecessarily cross other conduits or pipe, nor prevent removal of ceiling or tiles or panels, nor block access to mechanical or electrical equipment.
2. Where practical, install conduits in groups, in parallel, for vertical and horizontal runs and at elevations that avoid unnecessary offsets.
3. Exposed conduit shall be run parallel or at right angles to the centerlines of columns and beams.
4. Conduits shall not be placed closer than 12 inches from a parallel hot water or steam line or 3 inches from such lines crossing perpendicular to the runs.
5. At flush floor receptacle locations, associated conduit (1/2"C, required) shall be run within wood flooring plywood underlayment. Coordinate layout with flooring contractor prior to underlayment install to accommodate conduit cut-outs in plywood. Conduit layout shall not be parallel with wood floor planks scheduled for install on top of underlayment. Maintain minimum 30 degree angle from parallel.

C. Supports
1. All raceway systems shall be secured to the building structures using specified fasteners, clamps and hangers spaced according to code requirements.
2. Support single runs of conduit using one hole pipe straps. Where run horizontally on walls in damp or wet location, install "clamp-backs" to space conduit off the surface.
3. Multiple conduit runs shall be supported using "trapeze" hangers fabricated from specified construction channel, mounted to 3/8 inch diameter, threaded steel rods secured to building structures., Fasten conduit to construction channel with standard one hole pipe clamps or the equivalent.

D. Termination and Joints
1. Raceways shall be joined using specified coupling or transition couplings where dissimilar raceway systems are joined.
2. Conduits shall be securely fastened to cabinets, boxes and gutters using two locknuts and an insulating bushing or specified insulated connectors. Install grounding bushings or bonding jumpers on all conduits terminating at concentric knockouts.
3. Conduit terminations exposed at weatherproof enclosures and cast outlet boxes shall be made watertight using specified connectors and hubs.
4. Install expansion couplings where any conduit crosses a building separation or expansion joint.

E. Penetrations
1. All floor penetrations shall be sealed water-tight. Maintain fire rating as required.
2. Fire-safe all rated wall penetrations using 3M listed fire-safing sealants and assemblies.

3.03 CABLE AND WIRE INSTALLATION

A. General
1. Conductors shall not be installed in conduit until all work of any nature that may cause damage is completed. Care shall be taken in pulling conductors that insulation is not damaged. U.L. approved non-petroleum base and insulating type pulling compound shall be used as needed.
2. All cables shall be installed and tested in accordance with manufacturer's requirements and warranty.

B. Splicing and Terminating
1. All aspects of splicing and terminating shall be in accordance with cable manufacturer's published procedures.
2. Make up all splices in outlet boxes with connectors as specified herein with separate tails of correct color to be made up to splice. Provide at least six (6) inches of tails packed in box after splice is made up.
3. All wire and cable in panels, terminal cabinets and equipment enclosures shall be bundled and clamped.

C. MC Cable Installation MAX 6'-0"
1. Install cable in accordance with manufacturer's instructions and in strict accordance with NFPA 70, Article 334
2. Use solid conductor for branch circuits 12 AWG and smaller
3. Bend cable per NEC, Article 334
4. Grounding: All cable shall contain a green wire ground. The jacket shall not serve as the only grounding means
5. Suspension:
1. Cable shall be strapped tight to underside of decking where practical.
2. Cable shall have independent suspension and shall not be tied to ceiling grid suspension system, plumbing piping, or sprinkler piping.
3. Cable shall be grouped separately from low voltage cable systems.
4. Support cable every 6 feet, maximum.
5. Cable shall be strapped every 6'-0', at each turn, and within 12 inches of all junction boxes using cable straps, not ties.
6. Bundling: Install no more than 4 cables together in a single bundle
6. Routing:
1. Bending radius shall be approximately 12 times the external diameter of the metal sheath.
2. Routing of the cable shall follow the orthogonal grid of the building structural elements of the building, such as beams and purlins.
3. Cable in ceilings shall run as tight to structure as possible, and in no case (with the exception of drops) less than 12 inches above accessible ceilings.
4. MC cable shall not be used in final homerun connection to the branch circuit panel
6. Isolated ground circuits and normal ground circuits shall be run in separate cables.
7. Cable shall be installed using bushings or bushed fittings.

3.04 INSTALLATION OF BOXES AND WIRING SERVICES

A. General
1. All outlets shall finish FLUSH with wall finishes and ceiling, except where exposed work is called for. There shall be no gap between box and wall or ceiling material. Any opening between box and wall or ceiling shall be caulked airtight.
2. Install raised device covers on all outlet boxes as required to finish flush with surface. Covers shall be of a depth to suit the wall or ceiling finish.
3. Leave no unused openings in any box. Install close-up plugs as required to seal openings.
4. Exposed outlet boxes and boxes in damp and wet locations shall be cast metal with gasketed cast metal cover plates.

B. Boxes Layout
1. Outlet boxes shall be installed at the locations and elevations shown on the drawings or specified herein. Make adjustments to locations as required by structural conditions and to suit coordination requirements of other trades.
2. Outlet boxes in stud wall and partitions shall not be mounted back-to-back nor shall through-wall boxes be permitted.
3. Where installation is within or behind casework, coordinate exact location with casework contractor prior to rough-in to ensure accessibility.

C. Supports
1. Boxes installed in stud walls shall be equipped with brackets designed for attaching directly to the studs or shall be mounted on heavy gauge galvanized steel box supports,
2. Fixture outlet boxes installed in suspended ceilings of gypsum board or lath and plaster construction shall be mounted to 16 gauge metal channel bars attached to main ceiling runners.
3. Fixture outlet boxes installed in suspended ceilings systems supporting acoustical tiles or panels shall be supported directly from the structures above wherever pendant-mounted fixtures are installed from the box.

D. Mounting Heights: Unless noted otherwise heights are from finished floor to center line of device box shall be as follows, and in accordance with handicapped accessibility requirements of State Code.

Device:	Height(inches)
Convenience receptacle	18
Convenience receptacles above Counters unless otherwise noted	44
Switches, light	46
Telephone outlet	18

3.05 TRANSFORMER INSTALLATION

A. Transformer shall be floor mounted as shown on the drawings. Furnish and install all mounting hardware to safely carry the weight of the transformer. Maintain adequate spacing for ventilation as recommended by the manufacturer and required by code.
B. Provide Korfund type vibration isolation pads for each transformer.
C. Connections to transformer shall be made with flexible metallic conduit. Install ground conductors in each conduit and provide grounding bushings as required.
D. Provide heat insulating barrier below transformer where installed on combustiable surface.

END OF SECTION

SECTION 16510: LIGHTING FIXTURES

PART 1 GENERAL

1.01 DESCRIPTION

A. Work Included
1. Installation and connection of all fixtures, lamps, ballasts, lighting control devices, relays, related components and accessory wiring as shown on the plans, Fixture Schedule or as specified herein.
2. Owner shall furnish lighting fixtures (except exit signs) and lamps for installation by electrical contractor.
3. Final aiming and adjustment of recessed adjustable fixtures and track mounted fixtures shall be by the Electrical Contractor, as directed by the Owner's Representative.

A. Related Work Specified Elsewhere: Refer to Section 16050 for requirements applicable to this Section.

1.02 COORDINATION: Refer to Architectural Plans for exact location of lighting fixtures.

1.03 SUBMITTALS: Submit in conformance with the requirements of Section 16050: Time switches, control devices, relays and cabinets and wiring diagrams.

PART 2 PRODUCTS

2.01 LAMPS (Furnished by owner)

A. Incandescent Lamps: General purpose A base lamps shall be inside frosted, rated 120 VAC, or as noted on Fixture Schedule. Reflector style lamps, R and PAR, as noted on Fixture Schedule. MR16 lamps shall be G.E. Precise constant color type.
B. Fluorescent Lamps
1. 24, 36 and 48 inch long lamps shall be T-8 energy saving DELUXE warm-white.
2. Compact twin-tube and double twin-tube, 9, 13 and 18 watts nominal, 735 K SPX35.
C. Lamps shall be manufactured as indicated in the Lighting Fixture Schedule only.

2.02 BALLASTS (Furnished by owner)

A. Fluorescent Lamp Ballasts
1. Ballasts for all single tube fluorescent lamps shall be U.L. approved, CBM certified or ETL tested, Class P, Sound Rated A, "full-output" energy-saving, electronic ballasts for Octron lamps as manufactured by Magnetek.
2. Ballasts for compact fluorescent lamps shall have high power factor.
3. Ballasts shall be approved for use with energy saving lamps by the lamp manufacturer.

2.03 REFRACTORS, REFLECTORS AND LOUVERS (Furnished by owner)

A. All glassware, plaster and metal shall be uniform, free from defects, and photometrically tested for distribution by an independent testing laboratory.
B. Plastic diffusers shall be of virgin acrylic plastic.
C. Polished reflectors used with triphosphor compact lamps shall have anti-iridescent optical coating.

PART 3 EXECUTION

3.01 INSTALLATION

A. Contractor shall be responsible for handling and storage. Fixtures shall be installed plumb, level, in straight lines without distortion and clean.
B. Install each fixture in a manner recommended by the fixture manufacturer and approved by the Owner's Representative. Under this Section of the work, furnish and install all additional ceiling bracing, hanger supports and other structural reinforcements to the building require to properly and safely suspend fixtures, all as approved by the Owner's Representative.
C. Fixtures in areas of exposed duct and pipe work shall be suspended to avoid conflict with same.
D. Pendant fixtures shall be provided with ball aligners and sway adapters. Fixture chain shall not be used for supporting fixtures.
E. Ballasts: Ballasts judged by the Owner's Representative to be noisy, and failed or malfunctioning ballasts shall be replaced at Owner's expense.

3.02 FIXTURE SUPPORT - SUSPENDED CEILINGS

A. Provide four wire supports for each suspended fixture, secured to the building structure independent of the ceiling supporting system.

END OF SECTION

SECTION 16720: FIRE ALARM SYSTEM BIDDER DESIGN

PART 1 GENERAL

1.01 SCOPE OF WORK

A. Provide a complete bidder design fire alarm system for the tenant space to include, but shall not be limited to:
1. Complete system design. This shall include coordination of Landlord and Jurisdictional requirements.
2. Develop permit submittal documentation, inlcuding shop drawings and battery calculations.
3. All work, items, articles, materials, equipment, wiring, and raceway for a complete and operational system.
4. System testing, demonstration, and training.
5. Warranty.
6. All documentation required by NFPA.

B. Submittals - bidder design contractor shall provide all submittals as follows:
1. Shop drawings and product data shall be submitted to architect for approval of device locations and finish.
2. Submit all documentation to Landlord and local Jurisdiction as required for approval and to obtain permits. This shall inlcude, but is not limited to, shop drawings, battery calculations, listing information, and product data.

1.02 CODES AND STANDARDS

A. Tenant system shall be in accordance with all Jurisdictional codes, and shall be in compliance with the Landlord's standards and requirements.

1.03 APPROVED CONTRACTOR AND INSTALLER

A. All work related to the tenant fire alarm system installation shall be performed by a Landlord approved contractor.
B. All work required to be performed by the Landlord or the Landlord's contractor shall be at the expense of the tenant fire alarm contractor.
C. Tie-in at Landlord's fire alarm panel, located in the fire control room, shall be performed by Landlord's approved fire alarm contractor.

1.04 DEVICE COORDINATION

A. Fire alarm system devices, notes, and related information shown on the electrical plans illustrates the intent of device locations and installation requirements, and shall not constitute a complete fire alarm system design. Bidder design contractor shall be responsible for coordinating the exact system requirements with Landlord and Jurisdiction.
B. Fire alarm system installer shall coordinate with architectural and all other trades for proper placement of devices to eliminate conflicts with other systems.

PART 2 PRODUCTS

1.01 DEVICES AND EQUIPMENT

A. All wiring, devices, and equipment shall be new and compatible with Landlord's sytem.
B. All devices and equipment shall be U.L. listed, FM approved, and labeled for fire alarm system use.
C. Audible/visual devices, if required, shall be white in color and ceiling mounted, unless not allowed by Landlord or Jurisdiction. If ceiling mount device are not allowed by jurisdiction or Landlord, provide the required wall mount devices.
D. Pull stations, if required, shall be flush.
E. For installations requiring communicator or dialer, provide required primary and secondary telephone lines to control panel and provide 120 VAC dedicated branch circuit as required for power.

PART 3 INSTALLATION

1.01 INSTALLATION SHALL BE IN COMPLIANCE WITH LANDLORD AND JURISDICTIONAL REQUIREMENTS.

1.02 INSTALLATION SHALL BE IN ACCORDANCE WITH REQUIREMENTS OUTLINED IN TENANT DESIGN CRITERIA MANUAL.

1.03 WIRING

A. At areas that are within public view, all fire alarm cabling shall be run in EMT.
B. At non-public areas, cabling may be run exposed above 10' A.F.F. unless Landlord/Jursdiction requires metallic raceway. If so, provide required raceway. For cabling below 10' A.F.F., run concealed in wall or in raceway.

1.04 CEILING MOUNT DEVICES

A. At areas with GWB or ACT ceiling, provide required backbox and flush mount device in ceiling.
B. At areas open to structure, provide appropriate backbox attached to structure with surface mount device. For audible/visual device support from structure with 3/8" threaded rod with device at the required elevation.

1.05 COORDINATION

A. Prior to installation, installer shall review with the local Jurisdiction and the Landlord, the fire alarm system device locations. Installation shall not occur until approval of layout is obtained by both agencies and coordinated with Architect.
B. If ceiling mounted audible/visual devices are not allowed by the local Jurisdiction, notify Architect.

1.06 FIRE ALARM SYSTEM BIDDER DESIGN CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL RACEWAY REQUIRED FOR THE FIRE ALARM SYSTEM INSTALLATION.

PART 4 TESTING AND CLOSEOUT

1.01 PROVIDE A COMPLETE SYSTEM TEST AS REQUIRED BY NFPA 72, AND THE LANDLORD.

1.02 TEST ALL CONDUCTORS AS REQUIRED IN NFPA 72, CHAPTER 7.

1.03 CONTRACTOR SHALL COMPLETE THE INSPECTION AND TESTING FORM IN NFPA 72, FIGURE 7-5.2.2.

1.04 SUBMIT ALL TESTING AND INSPECTION REPORTS, SHOP DRAWINGS, AND AS-BUILT DRAWINGS TO OWNER AND AUTHORITY HAVING JURISDICTION AS REQUIRED BY NFPA 72.

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:

651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
2	11/22/21	BID
3	01/13/22	REVISION 1

STATUS:

PERMIT

Digitally Signed

Registered Professional Engineer
73815
MICHAEL GATH
01-14-2022
Date Signed
ARIZONA, U.S.A.

Michael Gath, P.E. (AZ)
2022.01.14 13:18:44-06'00'

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
ELECTRICAL SPECIFICATIONS

DATE: 01/13/22

PROJECT NO : 33126

DRAWN:

SCALE: AS NOTED

SHEET NO.:

E-902

HVAC LEGEND

SYMBOL (DOUBLE LINE)	DESCRIPTION
	NEW WORK
	EXISTING WORK
	DEMO WORK
	FLEXIBLE DUCT RUNOUT TO DIFFUSER
12x6	DUCT SIZE (WIDTH X DEPTH)
VD	VOLUME DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	CROSS SECTION OF SUPPLY DUCT
	CROSS SECTION OF EXHAUST AIR DUCT
	CROSS SECTION OF RETURN AIR DUCT
	CROSS SECTION OF ROUND DUCT
	DUCT ELBOW WITH TURNING VANES
	DUCT ELBOW WITHOUT TURNING VANES
12x6 IS ID	ACOUSTICAL LINING DUCT DIMENSION
	TRANSFER DUCT (WITH LINER)
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING SUPPLY DIFFUSER (SEE SCHEDULE) 4-WAY THROW UNLESS INDICATED OTHERWISE.
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING EXHAUST REGISTER (SEE SCHEDULE)
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN REGISTER (SEE SCHEDULE)
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
NECK SIZE-TAG-CFM	WALL SUPPLY/RETURN REGISTER (SEE SCHEDULE)
TAG-CFM (S)	SOFFIT SUPPLY DIFFUSER (SEE DETAIL 2 ON M12.01)
FSD X	COMBINATION FIRE/SMOKE DAMPER
	OCCUPANCY SENSOR TIED TO BMS SYSTEM
1 M-1	DETAIL 1, DRAWING M-1
HP 1	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1
	COLD WATER
	HOT WATER (120°F)
	HOT WATER CIRC (120°F)
	BALL VALVE
M	WATER FLOW METER
CS08	METER TAG

ABBREVIATIONS

ARCH	ARCHITECT
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALL VALVE OR BALANCING VALVE
BYV	BUTTERFLY VALVE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CP	CONDENSATE PUMP
CR	CONDENSATE RETURN
CS	CIRCUIT SETTER
CTE	CONNECT TO EXISTING
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CONSTANT VOLUME
CW	COLD WATER
D	DROP OR DRAIN
DBT	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DGP	DATA GATHERING PANEL
DIA	DIAMETER
DIFF	DIFFERENCE
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPT	DEW POINT TEMPERATURE
DSD	DUCT SMOKE DETECTOR
DV	DIAPHRAGM VALVE
DWG	DRAWING(S)
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR OR EACH
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
ECON	ECONOMIZER
ED	EXTRACTOR DAMPER
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWBT	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXH	EXHAUST
EXT	EXTERNAL
F	FAHRENHEIT OR FILTER
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FF	FINAL FILTER OR FINISHED FLOOR
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
FT	FOOT OR FEET
G	GAS
GA	GAUGE, GAGE
GAL	GALLONS
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIB
HC	HEATING COIL
HD	HEAD
HOR	HORIZONTAL
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR(S)
HVAC	HEATING, VENTILATING & AIR COND.
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KW	KILOWATT
(L)	ACOUSTICALLY LINED
MBH	THOUSAND BTU PER HOUR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
(N)	NEW
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OSA	OUTSIDE AIR
OV	OUTLET VELOCITY
P	PUMP OR PRESSURE OR POLE
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PF	PREFILTER
PH	PHASE (ELECTRICAL)
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
REV.	REVISE, REVISION, OR REVOLUTIONS
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S	SUPPLY OR SLOPE
SCFM	CFM, STANDARD CONDITIONS
SD	SMOKE DAMPER
SF	SUPPLY FAN
SN	X SHEET NOTE
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ IN	SQUARE INCH
ST	STRAINER OR SOUND TRAP
STD	SPLITTER DAMPER OR STANDARD
STRUCT	STRUCTURAL
T	THERMOMETER OR THERMOSTAT
TCP	TEMPERATURE CONTROL PANEL
TD	TRANSFER DUCT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TI	TENANT IMPROVEMENT
TRG	TRANSFER GRILLE
TS	TEMPERATURE SENSOR
TT	TEST TAP OR TEST TEE
TYP	TYPICAL
V	VENT OR VOLT OR VELOCITY
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WASTE OR WIDTH OR WATTS
W/	WITH
W/O	WITHOUT
WBT	WET BULB TEMPERATURE
WG	WATER GAUGE

GENERAL NOTES - MECHANICAL

1. VERIFY ALL CONNECTIONS TO EXISTING WORK.
2. CONTRACTORS SHALL VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO SUBMITTING PROPOSAL.
3. DURING ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN ADEQUATE FIRE EXTINGUISHERS READY FOR USE IN CASE OF FIRE.
4. PROTECTION OF PUBLIC: THE CONTRACTOR SHALL PROTECT THE PUBLIC FROM INJURY DURING PROGRESS OF THE WORK BY POSTING WARNING SIGNS, GUARD LIGHTS AND BARRICADES.
5. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL & PLUMBING CHARACTERISTICS WITH ALL SUB CONTRACTOR. ALL ELECTRICAL APPARATUS SERVING THE MECHANICAL EQUIPMENT SHALL FULLY COMPLY WITH ELECTRICAL AND CONTROL REQUIREMENTS.
6. OBTAIN WRITTEN PERMISSION OF ARCHITECT BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS.
7. FURNISH AND INSTALL MATERIALS, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR COMPLETE WORKABLE SYSTEMS.
8. RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
9. PROVIDE TWO SETS OF "AS-BUILT" DRAWINGS AND TWO BOUND SETS OF ALL OPERATIONS MANUALS, DIAGRAMS, SERVICE CONTRACTS, GUARANTEES, ETC. TO THE PROPERTY MANAGER. PROVIDE ONE SET OF "AS-BUILT" DRAWINGS TO ARCHITECT.
10. WHERE APPLICABLE, THERMOSTATS SHALL BE ABLE TO:
    - 10.1. MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEGREES TO 85 DEGREES.
    - 10.2. SEQUENCE HEATING AND COOLING AND PROVIDE A 5 DEGREES DEAD BAND IN WHICH NO HEATING OR COOLING IS PROVIDED TO THE SPACE.
11. PROVIDE THE MANUFACTURERS AND CODE REQUIRED CLEARANCES BETWEEN EQUIPMENT CONTROLS AND BEAMS, PIPES, DUCTS, LIGHT FIXTURES, CONDUITS, WALLS OR OTHER OBSTRUCTIONS.
12. THERMOSTAT HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR IN MANAGER'S OFFICE. LOCATIONS OF REMOTE TEMPERATURE SENSORS IN SALES AREA ARE TO BE APPROVED BY PM.
13. ALL PIPE AND DUCT INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL ENERGY CODE.
14. MECHANICAL SYSTEM CONTROLS SHALL MEET THE REQUIREMENT OF THE LOCAL ENERGY CODE AND BE ABLE TO INTERFACE WITH EXISTING BUILDING CONTROLS.
15. PROVIDE REQUIRED DUCT AND PIPING INSULATION PER THE LOCAL ENERGY CODE.
16. CONTRACTOR SHALL PROVIDE ALL CODE REQUIRED MECHANICAL EQUIPMENT AND PIPE SEISMIC RESTRAINT. THE SEISMIC RESTRAINTS SHALL BE DESIGNED AND STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF THE PROJECT.
17. PROVIDE CAD AS-BUILTS PER OWNER'S FORMAT.
18. COORDINATE CONTROLS WITH OWNER'S EXISTING EMS.
19. DURING COMMISSIONING, VERIFY EQUIPMENT O&M DATA IN AUTOCAD FILES.
20. G.C. SHALL USE FM HOT WORK PERMIT SYSTEM (OR EQUIVALENT) TO SUPERVISE ALL HOT WORK OPERATIONS, INCLUDING WELDING, CUTTING, BRAZING, SOLDERING, OR ANY SIMILAR SPARK, ARC OR FLAME-PRODUCING ACTIVITY.
21. G.C. TO USE OF THE FM RED TAG PERMIT SYSTEM (OR EQUIVALENT) TO SUPERVISE ALL IMPAIRMENTS TO SPRINKLER SYSTEMS, FIRE PUMPS, AND OTHER FIRE PROTECTION SYSTEMS.

MECHANICAL DRAWING LIST

M-001	INFORMATION AND DRAWING LIST - MECHANICAL
M-002	HVAC SCHEDULES & LOAD CALCULATIONS
M-100	HVAC DEMO PLAN
M-110	HVAC PLAN
M-301	HVAC DETAILS
M-901	SPECIFICATIONS - MECHANICAL
M-902	SPECIFICATIONS - MECHANICAL
M-903	SPECIFICATIONS - MECHANICAL

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.: 651

POTTERYBARN

SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
2	11/22/21	BID
3	01/13/22	REVISION 1

STATUS: PERMIT

Registered Professional Engineer (Mechanical) CERTIFICATE NO. 62512 WILLIAM KLOCK Date Signed ARIZONA U.S.A.

Expires 6/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:21:28-06'00'

FIELD VERIFICATION:
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SHEET NAME:
INFORMATION AND DRAWING LIST - MECHANICAL

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
M-001

DAIKIN WATER SOURCE HEAT PUMP UNITS

Design conditions	Summer DB	Summer WB	Winter DB
Outdoor Air	110	70	35
Space Temp	74	62	68

General			Fan						Cooling								Heating						AHRI		Electrical		
			Airflow (CFM)						AIR				WATER			Capacity (MBH)	AIR		WATER								
Mark	Model	Size (Tons)	SA	OA	%OA	Duct Config	Motor (HP)	ESP (IWG)	EAT DB	EAT WB	LAT DB	LAT WB	GPM	EWT DB	LWT DB	Total	Sens.	EAT DB	LAT DB	GPM	EWT DB	LWT DB	Total Cap. (MBH)	EER	COP	MCA (A)	MOCP (A)	V/PH
WSHP-3	WCCH5060	5.0	1,885	195	10%	HORIZONTAL	0.75	0.6	78	63	54	51	11	90	102	51	49	65	103	11	85	73	79	14.6	4.9	11.8	15	480/3

FACTORY PROVIDED AND INSTALLED OPTIONS:

1. WATER SIDE ECONOMIZER & SEQUENCE.
2. NON-FUSED DISCONNECTS.
3. MICRO TECH III CONTROL
4. DRAIN PAN
5. 4-YEAR COMPRESSOR WARRANTY

FACTORY PROVIDED, CONTRACTOR INSTALLED OPTIONS:

6. 7-DAY PROGRAMMABLE THERMOSTAT WITH TEMPERATURE SETBACK, SET POINT OVERLAP RESTRICTIONS, 5˚F DEADBAND RESTRICTIONS, 2 HOUR OVERRIDE, 10-HOUR BACKUP.
7. WALL MOUNTED REMOTE TEMPERATURE SENSOR(S).
8. HOSE CONNECTION KITS
9. VIBRATION ISOLATION HANGER ROD KIT

CONTRACTOR PROVIDED AND INSTALLED ITEMS:

10. FLEXIBLE CONNECTION ON SUPPLY AND RETURN DUCTWORK CONNECTIONS FULL SIZE OF OPENINGS.
11. SMOKE DETECTOR IN THE RETURN.
12. (3) SETS OF 2" DEEP PLEATED MERV 8 RATED FILTERS (SUCH AS FARR 30/30 FILTERS).
13. SECONDARY DRAN PAN.
14. 4" HIGH BLACK STENCIL LETTERS ON ALL HVAC INDICATING: HVAC UNIT NUMBER. VERIFY ADDITIONAL REQUIREMENTS WITH LANDLORD.

NOTES:

15. PROVIDE MAKE AND MODEL SPECIFIED OR ENGINEER APPROVED EQUAL.
16. CONTRACTOR TO PROGRAM HVAC EQUIPMENT THERMOSTAT, INITIAL OPERATION HOURS AND TEMPERATURE SET POINTS. ADJUST OPERATIONAL HOURS WHEN OBTAINED BY GENERAL CONTRACTOR.
17. CONTRACTOR IS RESPONSIBLE FOR CLEAN HVAC COILS AT THE END OF CONSTRUCTION. PROVISIONS SHOULD BE TAKEN TO KEEP COILS CLEAN, AND IF COILS GET DIRTY, THEN CONTRACTOR IS RESPONSIBLE FOR CLEANING THEM.
18. CONTRACTOR SHALL REPLACE FILTERS JUST PRIOR TO AIR-BALANCE, AFTER ANY HEAVY SANDING, AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE.

BID ADD ALTERNATE

(EXISTING) WATER SOURCE HEAT PUMP UNITS

Design conditions	Summer DB	Summer WB	Winter DB
Outdoor Air	110	70	35
Space Temp	74	62	68

General			Fan						Cooling								Heating						AHRI		Electrical		
			Airflow (CFM)						AIR				WATER			Capacity (MBH)	AIR		WATER								
Mark	Model	Size (Tons)	SA	OA	%OA	Duct Config	Motor (HP)	ESP (IWG)	EAT DB	EAT WB	LAT DB	LAT WB	GPM	EWT DB	LWT DB	Total	Sens.	EAT DB	LAT DB	GPM	EWT DB	LWT DB	Total Cap. (MBH)	EER	COP	MCA (A)	MOCP (A)	V/PH
(E) WSHP-1	WCMS120K	10.0	4,000	780	20%	Horizontal	3.0	0.9	81	64	56.0	55.0	24.0	90	102	118.0	108.0	62	90.4	18.4	85	72	162.0	-	-	25.9	35	480/3
(E) WSHP-2	WCMS120K	10.0	4,000	780	20%	Horizontal	3.0	0.9	81	64	56.0	55.0	24.0	90	102	118.0	108.0	58	88.5	16.0	85	72	162.0	-	-	25.9	35	480/3

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR CLEAN HVAC COILS AT THE END OF CONSTRUCTION. PROVISIONS SHOULD BE TAKEN TO KEEP COILS CLEAN, AND IF COILS GET DIRTY, THEN CONTRACTOR IS RESPONSIBLE FOR CLEANING THEM.
2. CONTRACTOR SHALL REPLACE FILTERS JUST PRIOR TO AIR-BALANCE, AFTER ANY HEAVY SANDING, AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	GROUP	TYPE/PATTERN	BORDER/MOUNT	CONSTRUCTION	MANUF.	MODEL	NOTES
A1	SUPPLY AIR REGISTERS	24 X 24 360 DEGREE HORIZONTAL	CEILING (SURFACE MOUNT)	STEEL, WHITE	TITUS	DAT	FURNISH WITH OPPOSED BLADE BALANCING DAMPER. NECK SIZE PER PLANS.
B	RETURN AIR REGISTERS	24" x 24" CEILING MOUNTED	CEILING (SURFACE MOUNT)	ALUMINUM, WHITE	TITUS	PAR	NECK SIZE PER PLANS.

NOTES:

1. PROVIDE MAKE AND MODEL SPECIFIED.
2. COORDINATE AIR DEVICE COLOR SELECTION WITH ARCHITECT.
3. ALL 12"x12" AND 24"x24" CEILING MOUNTED SUPPLY AND RETURNS IN GYP OR PLASTER CEILINGS SHALL BE INSTALLED WITH A LAY-IN PLASTER FRAME EQUAL TO TITUS MODEL TRM.

HP-1 AIR SYSTEM SIZING

Air System Information

Air System Name	WSHP-1 SOUTH	Number of zones	1
Equipment Class	SPLT AHU	Floor Area	2670.0 ft²
Air System Type	SZCAV	Location	Phoenix IAP, Arizona

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	Calculated	Space CFM Sizing	Coincident space loads

Central Cooling Coil Sizing Data

Total coil load	6.7	Tons	Load occurs at	Aug 1500
Total coil load	79.9	MBH	OA DB / WB	110.0 / 70.0 °F
Sensible coil load	79.7	MBH	Entering DB / WB	85.1 / 64.4 °F
Coil CFM at Aug 1500	2602	CFM	Leaving DB / WB	55.6 / 53.6 °F
Max block CFM	2602	CFM	Coil ADP	52.3 °F
Sum of peak zone CFM	2602	CFM	Bypass Factor	0.100
Sensible heat ratio	0.998		Resulting RH	48 %
CFM/Ton	390.7		Design supply temp.	57.0 °F
ft²/Ton	400.9		Zone T-stat Check	0 of 1 OK
BTU/(hr·ft²)	29.9		Max zone temperature deviation	0.3 °F
Water flow @ 10.0 °F rise	N/A			

Central Heating Coil Sizing Data

Max coil load	29.8	MBH	Load occurs at	Des Htg
Coil CFM at Des Htg	2602	CFM	BTU/(hr·ft²)	11.1
Max coil CFM	2602	CFM	Ent. DB / Lvg DB	58.2 / 69.2 °F
Water flow @ 20.0 °F drop	N/A			

Supply Fan Sizing Data

Actual max CFM	2602	CFM	Fan motor BHP	1.43 BHP
Standard CFM	2500	CFM	Fan motor kW	1.13 kW
Actual max CFM/ft²	0.97	CFM/ft²	Fan static	2.00 in wg

Outdoor Ventilation Air Data

Design airflow CFM	734	CFM	CFM/person	20.63 CFM/person
CFM/ft²	0.28	CFM/ft²		

HP-1 VENTILATION SIZING

1. Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2013
Design Condition	Heating operation
Occupant Diversity (D)	1.000
Uncorrected Outdoor Air Intake (Vou)	587 CFM
System Ventilation Efficiency (Ev)	1.000
Outdoor Air Intake (Vot)	734 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Ev)
Zone 1										
SALES SOUTH	1	2602	2670.0	0.12	35.6	7.50	0.8	734	587	1.000
Totals (Incl. Space Multipliers)		2602							587	1.000

HP-2 AIR SYSTEM SIZING

Air System Information

Air System Name	WSHP-2 NORTH	Number of zones	1
Equipment Class	SPLT AHU	Floor Area	3010.0 ft²
Air System Type	SZCAV	Location	Phoenix IAP, Arizona

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	Calculated	Space CFM Sizing	Coincident space loads

Central Cooling Coil Sizing Data

Total coil load	6.0	Tons	Load occurs at	Jul 1500
Total coil load	72.5	MBH	OA DB / WB	110.0 / 70.0 °F
Sensible coil load	70.4	MBH	Entering DB / WB	91.9 / 65.6 °F
Coil CFM at Jul 1500	1770	CFM	Leaving DB / WB	53.6 / 51.2 °F
Max block CFM	1770	CFM	Coil ADP	49.3 °F
Sum of peak zone CFM	1770	CFM	Bypass Factor	0.100
Sensible heat ratio	0.971		Resulting RH	44 %
CFM/Ton	293.0		Design supply temp.	55.0 °F
ft²/Ton	498.3		Zone T-stat Check	0 of 1 OK
BTU/(hr·ft²)	24.1		Max zone temperature deviation	1.0 °F
Water flow @ 10.0 °F rise	N/A			

Central Heating Coil Sizing Data

Max coil load	30.6	MBH	Load occurs at	Des Htg
Coil CFM at Des Htg	1770	CFM	BTU/(hr·ft²)	10.2
Max coil CFM	1770	CFM	Ent. DB / Lvg DB	52.1 / 68.8 °F
Water flow @ 20.0 °F drop	N/A			

Supply Fan Sizing Data

Actual max CFM	1770	CFM	Fan motor BHP	0.97 BHP
Standard CFM	1700	CFM	Fan motor kW	0.77 kW
Actual max CFM/ft²	0.59	CFM/ft²	Fan static	2.00 in wg

Outdoor Ventilation Air Data

Design airflow CFM	828	CFM	CFM/person	20.63 CFM/person
CFM/ft²	0.28	CFM/ft²		

HP-2 VENTILATION SIZING

1. Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2013
Design Condition	Heating operation
Occupant Diversity (D)	1.000
Uncorrected Outdoor Air Intake (Vou)	662 CFM
System Ventilation Efficiency (Ev)	1.000
Outdoor Air Intake (Vot)	828 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Ev)
Zone 1										
SALES NORTH	1	1770	3010.0	0.12	40.1	7.50	0.8	828	662	1.000
Totals (Incl. Space Multipliers)		1770							662	1.000

HP-3 AIR SYSTEM SIZING

Air System Information

Air System Name	WSHP-3 STOCK	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	1235.0 ft²
Air System Type	SZCAV	Location	Phoenix IAP, Arizona

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	Calculated	Space CFM Sizing	Coincident space loads

Central Cooling Coil Sizing Data

Total coil load	4.1	Tons	Load occurs at	Aug 1600
Total coil load	49.0	MBH	OA DB / WB	109.3 / 69.8 °F
Sensible coil load	49.0	MBH	Entering DB / WB	78.6 / 61.1 °F
Coil CFM at Aug 1600	1884	CFM	Leaving DB / WB	53.6 / 51.5 °F
Max block CFM	1884	CFM	Coil ADP	50.8 °F
Sum of peak zone CFM	1884	CFM	Bypass Factor	0.100
Sensible heat ratio	1.000		Resulting RH	42 %
CFM/Ton	461.9		Design supply temp.	55.0 °F
ft²/Ton	302.7		Zone T-stat Check	0 of 1 OK
BTU/(hr·ft²)	39.6		Max zone temperature deviation	0.1 °F
Water flow @ 10.0 °F rise	N/A			

Central Heating Coil Sizing Data

Max coil load	12.7	MBH	Load occurs at	Des Htg
Coil CFM at Des Htg	1884	CFM	BTU/(hr·ft²)	10.3
Max coil CFM	1884	CFM	Ent. DB / Lvg DB	64.4 / 70.9 °F
Water flow @ 20.0 °F drop	N/A			

Supply Fan Sizing Data

Actual max CFM	1884	CFM	Fan motor BHP	1.03 BHP
Standard CFM	1810	CFM	Fan motor kW	0.82 kW
Actual max CFM/ft²	1.53	CFM/ft²	Fan static	2.00 in wg

Outdoor Ventilation Air Data

Design airflow CFM	191	CFM	CFM/person	50.60 CFM/person
CFM/ft²	0.15	CFM/ft²		

HP-3 VENTILATION SIZING

1. Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2013
Design Condition	Heating operation
Occupant Diversity (D)	1.000
Uncorrected Outdoor Air Intake (Vou)	176 CFM
System Ventilation Efficiency (Ev)	0.921
Outdoor Air Intake (Vot)	191 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Ev)
Zone 1										
OFFICE	1	425	85.0	0.06	1.0	5.00	0.8	13	10	1.064
STOCK	1	1165	1110.0	0.12	2.8	10.00	0.8	201	161	0.921
STOCK/DISPLAY	1	294	40.0	0.12	0.0	10.00	0.8	6	5	1.073
Totals (Incl. Space Multipliers)		1884						176		0.921

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

State of Registration: ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERY BARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Registered Professional Engineer (Mechanical) CERTIFICATE NO. 62512 WILLIAM KLOCK Date Signed ARIZONA U.S.A.

Expires 12/31/2022
William Klock, P.E. (AZ)
2022.01.14 15:22:53-06'00'

FIELD VERIFICATION:
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SHEET NAME:
HVAC SCHEDULES & LOAD CALCULATIONS

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

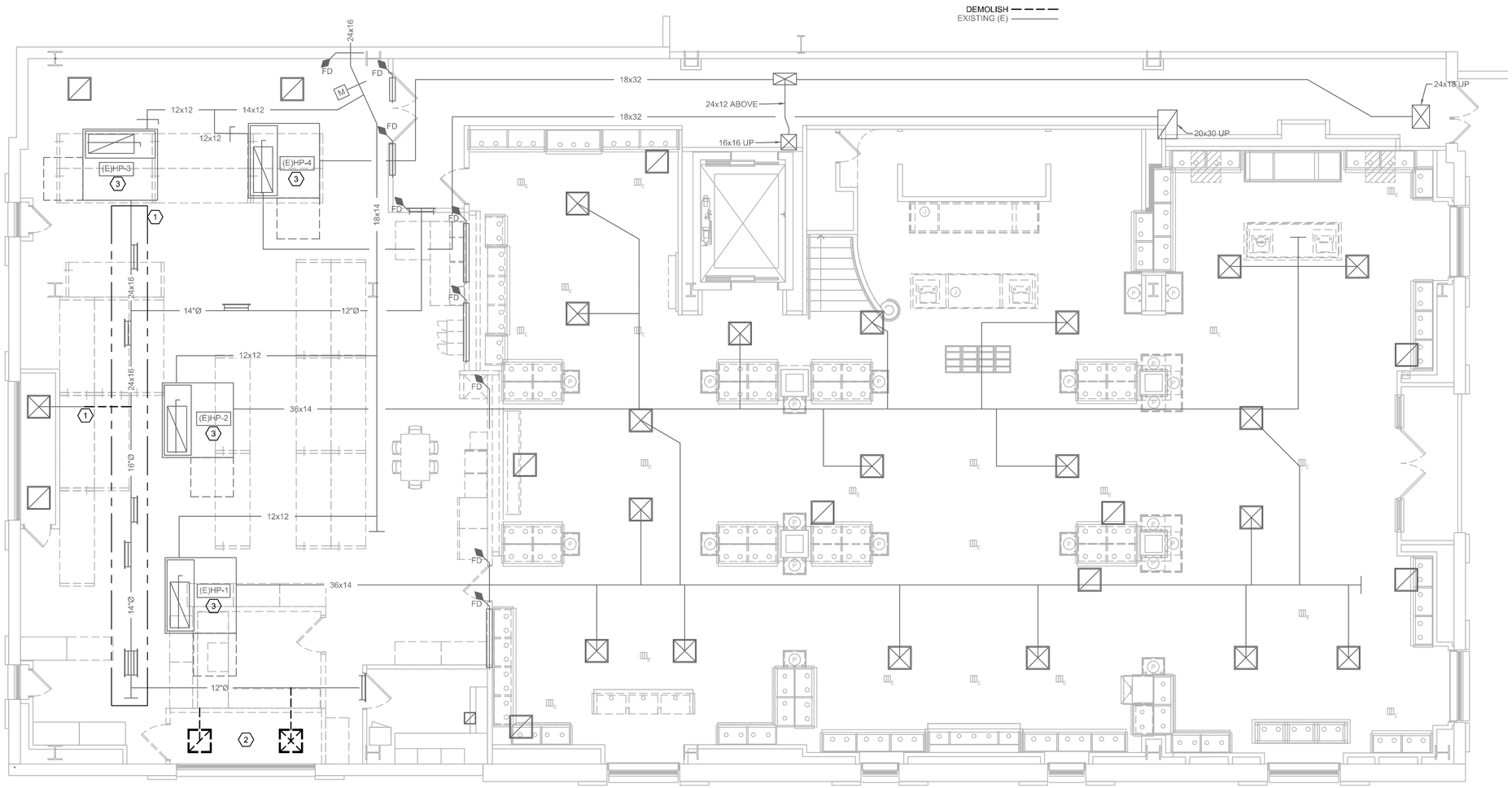
SHEET NO.:
M-002

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.

KEYED NOTES

1. DISCONNECT & RELOCATE EXISTING DUCT MAIN TO LOCATION SHOWN IN NEW WORK. REMOVE BRANCH DUCTING AS NECESSARY. REFER TO SHEET M-110 FOR NEW WORK.
2. REMOVE AIR DEVICE(S) & DUCTWORK FROM WINDOW DISPLAY SPACE TO BE DEMOLISHED. CAP & SEAL BRANCH TAP.
3. VERIFY UNIT DIMENSIONS & LOCATION (INCLUDING ELEVATION) IN FIELD. COORDINATE VERIFIED INFORMATION WITH ARCHITECT.



HVAC DEMO PLAN

3/16"=1'-0"
1

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

State of Registration ARIZONA
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EEA Project No. 20216523

STORE NO.:
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POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Registered Professional Engineer (Mechanical)
CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.

Expires:9/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:21:16-06'00'

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SHEET NAME:
HVAC DEMO PLAN

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

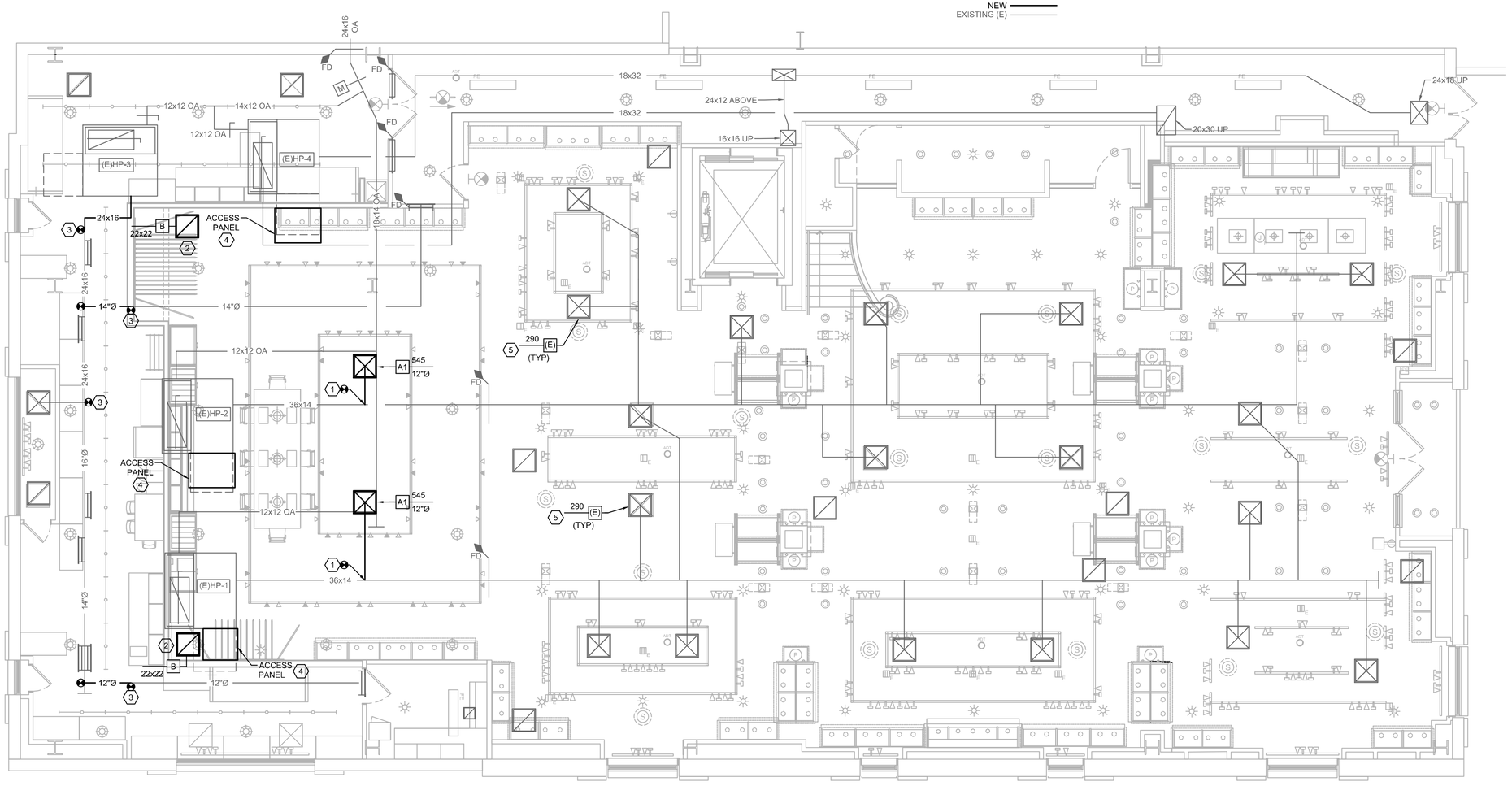
SHEET NO.:
M-100

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.

KEYED NOTES

1. PROVIDE NEW AIR DEVICE AND DUCTWORK, PER SCHEDULE. INSTALL PER SMACNA. CONNECT TO EXISTING WHERE SHOWN. CONTRACTOR SHALL ONLY USE LOW-LOSS FITTINGS. MAXIMUM FLEX DUCT LENGTH IS 5 FT.
2. PROVIDE NEW AIR DEVICE, PER SCHEDULE. INSTALL WHERE SHOWN. REFER TO ARCHITECTURAL RCP FOR FINAL LOCATION.
3. PROVIDE AND INSTALL DUCTWORK, PER SMACNA, AS NECESSARY TO CONNECT RELOCATED DUCT MAIN TO HP-3 AND EXISTING BRANCHES.
4. PROVIDE AND INSTALL 4 FT. x 3 FT. ACCESS PANEL FOR MECHANICAL EQUIPMENT MAINTENANCE. REFER TO ARCHTECTURAL RCP FOR ADDITIONAL REQUIREMENTS.
5. REBALANCE DIFFUSERS TO CFM SHOWN.



HVAC PLAN

3/16"=1'-0"

1

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POTTERYBARN

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15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
2	11/22/21	BID
3	01/13/22	REVISION 1

STATUS:

PERMIT

Registered Professional Engineer (Mechanical)
CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.

Expires: 9/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:21:50-06'00'

FIELD VERIFICATION:
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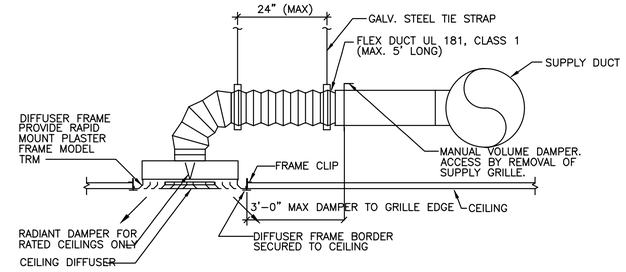
SHEET NAME:

HVAC PLAN

DATE:	PROJECT NO.:
01/13/22	33126
DRAWN:	SCALE: AS NOTED

SHEET NO.:

M-110



DIFFUSER CONNECTION DETAIL

NOT TO SCALE

1

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14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

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	11/22/21	BID
	01/13/22	REVISION 1

STATUS:

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CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.

Expires:9/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:22:10-06'00'

FIELD VERIFICATION:

The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:

HVAC DETAILS

DATE: 01/13/22

PROJECT NO.: 33126

DRAWN:

SCALE: AS NOTED

SHEET NO.:

M-301

DIVISION 20 – COMMON REQUIREMENTS FOR FIRE SUPPRESSION, PLUMBING AND HVAC
SECTION 200500 GENERAL PROVISIONS

PART 1 – GENERAL
1.01 GENERAL REQUIREMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.
B. INCLUDE ALL LABOR, MATERIAL EQUIPMENT, TRANSPORTATION AND SERVICES TO FURNISH AND INSTALL COMPLETE MECHANICAL SYSTEMS AND ALTERATIONS AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. THE WORK INCLUDES, BUT IS NOT LIMITED TO:
1. ALL PLUMBING WORK
2. CONNECTION TO ALL UTILITIES.
3. HEATING AND AIR CONDITIONING.
4. INSULATION.
5. TEMPERATURE CONTROLS.
6. FIRE PROTECTION WORK.

1.02 DESCRIPTION OF WORK

A. EXTENT OF MECHANICAL WORK IS INDICATED ON DRAWINGS OR SPECIFIED IN DIVISIONS 20, 21, 22 AND 23 SECTIONS OF THE SPECIFICATION. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION AND SERVICE NECESSARY FOR COMPLETE MECHANICAL SYSTEM.

1.03 QUALITY OF ASSURANCE

A. ALL WORK ACCOMPLISHED UNDER THESE SPECIFICATIONS SHALL BE IN ACCORDANCE WITH REQUIREMENTS AND RECOMMENDATIONS OF THE LOCAL COUNTY, STATE, NATIONAL FIRE PROTECTION ASSOCIATION, ACCEPTED MECHANICAL CODE, PLUMBING CODE, BUILDING CODE, ETC. UNDER THIS JURISDICTION.
B. IN ADDITION, FOLLOW ALL REQUIREMENTS PERTAINING TO THE MALL TENANT DESIGN MANUAL.

1.04 SUBMITTALS

A. DIVISIONS 20, 21, 22 AND 23 SHALL SUBMIT FOR REVIEW, SIX COPIES OF SHOP DRAWINGS, LITERATURE, AND EQUIPMENT LIST WITHIN 30 DAYS AFTER CONTRACT IS LET. FIRE PROTECTION DRAWINGS SHALL BE SUBMITTED PER SECTION 21000.
B. SUBMIT PRIOR TO FABRICATION.
C. SUBMIT COMPLETE, AT ONE TIME. PARTIAL SUBMITTALS WILL NOT BE CONSIDERED (EXCEPT AS NOTED ABOVE FOR CONTROLS, FIRE PROTECTION AND DUCTWORK).
D. CATALOG SHEETS SHALL BE COMPLETE AND THE ITEM OR MODEL TO BE USED SHALL BE CLEARLY MARKED.
E. LIST SUBSITUTE ITEMS SEPARATELY AND SO IDENTIFIED.

PART 2 – PRODUCTS
2.01– MATERIALS

A. ALL MATERIALS SHALL BE NEW AND OF MANUFACTURES SPECIFIED HEREIN. THEY SHALL BE U.S. MADE (EXCEPT FOR CANADIAN COPPER PIPE IS ACCEPTABLE) AND BEAR THE U.L., ETL OR CSA LABEL WHERE POSSIBLE.
B. ALL EQUIPMENT SHALL BE REGULARLY CATALOGUED ITEMS OF THE MANUFACTURER AND IN USE FOR AT LEAST TWO YEARS AND SHALL BE SUPPLIED AS A COMPLETE UNIT IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD SPECIFICATIONS AND ANY OPTIONAL ITEMS REQUIRED FOR PROPER INSTALLATION FOR THE EQUIPMENT UNLESS OTHERWISE NOTED. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND BEST TRADE PRATICES.

2.02 SUBSTITUTIONS

A. IN ALL CASES, IN THIS SPECIFICATION, WHERE AN ARTICALE IS FOLLOWED BY THE WORDS "OR APPROVED EQUAL" THE ARCHITECT IS THE SOLE JUDGE OF THE QUALITY OF THE PROPOSED SUBSTITUTION.
B. WHEN THE ARCHITECT/OWNER APPROVES A SUBSTITUTION, THE APPROVAL IS GIVEN WITH THE UNDERSTANDING THAT DIVISIONS 20, 21, 22 AND 23 GUARANTEE THE ARTICLE OR MATERIAL SUBSTITUTED TO BE EQUAL TO OR BETTER IN EVERY RESPECT THAN THE ARTICLE OR MATERIAL SPECIFIED. DIVISIONS 20, 21, 22 AND 23 SHALL ALSO ASSUME COMPLETE RESPONSIBILITY THAT THE ARTICLE OR MATERIAL WILL FIT THE JOB AS FAR AS SPACE, ACCESS AND SERVICING REQUIREMENTS.
C. WHERE SEVERAL MATERIALS ARE SPECIFIED BY NAME FOR ONE USE, SELECT FOR USE ANY OF THOSE SO SPECIFIED. NOTE THAT EQUIPMENT LAYOUT IS BASED ON EQUIPMENT LISTED IN EQUIPMENT SCHEDULES. ANY OTHER EQUIPMENT USED MUST FIT IN AVAILABLE SPACE WITH ALL ACCESS AND SERVICING REQUIREMENTS MAINTAINED. IT IS DIVISIONS 20, 21, 22 AND 23 RESPONIBILITY TO CHECK THAT THIS EQUIPMENT WILL MEET THESE REQUIREMENTS.
D. WHENEVER ITEM OR CLASS OF MATERIAL IS SPECIFIED EXCLUSIVELY BY DETAIL SPECIFICATION TRADE NAME, MANUFACTURER'S NAME OR BY CATALOG REFERENCE, USE ONLY SUCH ITEM, UNLESS WRITTEN APPROVAL IS GIVEN FOR SUBSTITUTION PRIOR TO BID.

PART 3 – EXECUTION
3.01 DRAWINGS

A. THE MECHANICAL DRAWINGS ARE GENERALLY DISGRAMMATIC. COMPLETE DETAILS OF THE BUILDING WHICH AFFECT THE MECHANICAL INSTALLATION MAY NOT BE SHOWN. FOR ADDITIONAL DETAILS, DIVISIONS 20, 21, 22 AND 23 IS REFERRED TO THE ARCHITECTURAL, STRUCTURAL, & ELECTRICAL DRAWINGS.

3.02 CODES, ORDINANCES AND PERMITS

A. ALL WORK SHALL BE COMPLY WITH ALL APPLICABLE CODES AND ORDIANCES. TAKE OUT AND PAY FOR ALL INSPECTION FEES AND PERMITS. COMPLIANCE WITH CODES AND ORDIANCES SHALL BE AT DIVISIONS 20, 21, 22 AND 23'S EXPENSE. INCLUDE ALL CONNECTION AND PERMIT FEES IN BID. DIVISIONS 20, 21, 22 AND 23 SHALL CONTACT AHJ FOR INSPECTION OF ALL PRESSURE VESSELS IN A TIMELY MANNER BEFORE OCCUPANCY OF THE BUILDING.

3.04 TESTING

A. WATER PIPING
TEST ALL WATER PIPING SYSTEMS AT 125 PSI WATER PRESSURE AND HOLD FOR FOUR (4) HOURS. TEST IN SECTIONS BEFORE COVERING. TEST ENTIRE SYSTEM WHEN COMPLETELY INSTALLED. REPAIR ANY DEFECTS SHOWN BY TEST AND RETEST UNTIL ENTIRELY TIGHT.
B. WASTE AND SEWER PIPING
TEST ALL WASTE, SEWER AND VENT PIPING BY FILLING WITH WATER TO ROOF. HOLD FOR FOUR HOURS. TEST IN SECTIONS AS WORK PROGESSES. REPAIR ANY DEFECTS SHOWN BY TEST AND RETEST UNTIL ENTIRELY TIGHT.
C. VALVES
TEST ALL VALVE BONNETS FOR TIGHTNESS. OPERATE ALL VALVES AT LEAST ONCE FROM CLOSED–TO–OPEN–TO–CLOSED WHILE UNDER PRESSURE.

3.05 CLEAN UP AND HOUSEKEEPING

A. LEAVE ALL EQUIPMENT CLEAN AND READY FOR USE.
B. REMOVE ALL LABELS, PAINT, PLASTER, ETC., FROM FIXTURES, EQUIPMENT AND PIPING.

3.06 OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS

A. SCOPE:
1. PROVIDE COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS AND CATALOG SHEETS FOR ALL EQUIPMENT.
2. PROVIDE FOUR COPIES OF EACH BOUND INTO BOOKLET FORM.
3. DELIVER BOOKLETS TO THE ARCHITECT BEFORE FINAL COMMISSIONING OF SYSTEMS AND BEFORE SUBSTANIAL COMPLETION.
B. CONTENTS: EACH BOOKLET SHALL CONTAIN AT LEAST, BUT NOT LIMITED TO MAINTENANCE INSTRUCTIONS AND PARTS LIST AS FOLLOWS:
1. BASIC DESCRIPTION OF ALL SYSTEMS.
2. DESCRIPTION OF ROUTINE MAINTENANCE REQUIRED FOR EACH COMPONENT, INCLUDING OILING INSTRUCTIONS
3. SUGGESTED FREQUENCY OF MAINTENANCE.
4. PARTS LIST OF ALL EQUIPEMENT.
5. OPERATING INSTRUCTIONS AND WARRANTIES ON ALL EQUIPMENT.
6. CONTROLS: AS–BUILT WIRING DIAGRAMS.
7. MECHANICAL AS–BUILT DRAWINGS.
8. TROUBLE–SHOOTING LIST.
9. NAME, ADDRESS, PHONE NUMBER OF ALL DIVISION 20, 21, 22 AND 23 SUPPLIERS PARTICIPATING IN PROJECT.

3.07 RECORD DRAWINGS

A. PROVIDE THE ARCHITECT WITH RECORD DRAWINGS. RECORD DRAWINGS SHALL BE NEW, REPRODUCIBLE BOND, PAPER AND SHALL SHOW THE MEASURED LOCATIONS OF ALL CONCERNED PORTIONS OF THE WORK AND SHALL SHOW ALL CHANGES THE DIVISIONS 20, 21, 22 AND 23 HAVE MADE.
B. DRAWINGS MUST SHOW ALL ADDENDUM ITEMS, CHANGE ORDERS AND DEVIATIONS FROM THE PLANS

3.08 INTERFERENCE

A. DIVISIONS 20, 21, 22 AND 23 ATTENTIONS ARE CALLED TO THE RESTRICTED SPACE FOR INSTALLATION OF MECHANICAL SYSTEMS. OFFSETS, REROUTING AND COORDINATION WILL BE REQUIRED TO FIT ALL ELEMENTS IN AVAILABLE SPACE AND DIVISIONS 20, 21, 22 AND 23 SHALL INCLUDE PROVISIONS FOR SUCH IN HIS BID.
B. DUCTWORK AND PIPING SHALL BE ROUTED TO CLEAR LIGHT FIXTURES. COORDINATE ROUTING OF DUCTWORK AND PIPING WITH EACH OTHER SO GRADE OF PIPING CAN BE ACCOMPLISHED AND TO FIT IN AVAILABLE SPACE.
C. DUCTWORK SHALL BE INSTALLED AS REQUIRED TO CLEAR LIGHT FIXTURES AND TO FIT IN AVAILABLE SPACE. PROVIDE OFFSETS, V OR SLEEVES AS REQUIRED. MAINTAIN EQUIVALENT FREE AREA OF DUCTWORK.
D. DUCTWORK TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE AND ROUTING. COORDINATE INSTALLATION BASED ON THIS PRECEDENCE.
E. DUCTWORK AND/OR PIPING SHALL NOT BE RUN OVER ELECTRICAL PANELS.

3.09 WORKMANSHIP

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH BEST TRADE PRACTICE. ANY SUBSTANDARD WORKMANSHIP SHALL BE REMOVED AND REPLACED AT NO EXTRA COST TO THE OWNER.

3.10 SEISMIC RESTRAINTS

A. ALL MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH IBC SEISMIC DESIGN CATEGORY D. DIVISIONS 20, 21, 22 AND 23 SUBCONTRACTORS SHALL HIRE (AT DIVISIONS 20, 21, 22 AND 23 EXPENSES) A LICENSED PROFESSIONAL ENGINEER IN THIS STATE TO DESIGN ANY NECESSARY ANCHORAGE, BRACING, ETC. FOR MECHANICAL COMPONENTS TO COMPLY WITH IBC SECTION 1621 AND ASCE 7–02 SECTION 9.6.3.

END OF SECTION 200500

SECTION 200513 ELECTRICAL PROVISIONS

PART 1 – GENERAL
1.01 DESCRIPTION

A. GENERAL REQUIREMENTS
DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

1.02 STANDARDS

A. FOR ELECTRICAL EQUIPMENT AND PRODUCTS, EMPLOY WITH APPLICABLE NEMA STANDARDS, AND REFER TO NEMA STANDARDS FOR DEFINITIONS OF TEMINOLOGY HERIN. COMPLY WITH NATIONAL ELECTRICAL CODE (NFPA 70) FOR WORKMANSHIP AND INSTALLATION REQUIREMENTS AND TO APPLICABLE SECTIONS OF DIVISION 26, 27 AND 28 OF THE SPECIFICATIONS.

PART 2 – PRODUCTS
2.01 MOTORS

A. MANUFACTURER
1. EXCEPT WHERE ITEM OF MECHANICAL EQUIPMENT (WHICH OTHERWISE COMPLIES WITH REQUIREMENTS) MUST BE INTEGRALLY EQUIPPED WITH MOTOR PRODUCED BY ANOTHER MANUFACTURER, PROVIDE MOTORS FOR MECHANICAL EQUIPMENT.
B. MOTOR CHARACTERISTICS
1. EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED, AND EXCEPT WHERE REQUIRE ITEM OF MECHANICAL EQUIPMENT CANNOT BE OBTAINED WITH FULLY COMPLYING MOTOR, COMPLY WITH THE FOLLOWING REQUIREMENTS FOR MOTORS OF MECHANICAL WORK:
A. TEMPERATURE RATING: RATED FOR 40 DEG. C ENVIRONMENT WITH MAXIMUM 50 DEG. C TEMPERATURE RISE FOR CONTINUOUS DUTY AT FULL LOAD (CLASS A INSULATION).
B. STARTING CAPABILITY: PROVIDE EACH MOTOR CAPABLE OF MAKING STARTS AS FREQUENTLY AS INDICATED BY AUTOMATIC CONTROL SYSTEM, AND NOT LESS THAN 5 STARTS,FOUR (4) FOR MANUALLY CONTROLLED MOTORS.
C. PHASES AND CURRENT CHARACTERISTICS:
PROVIDE SQUIRREL–CAGE INDUCTION POLYPHASE MOTORS FOR 1 HP AND LARGER, AND PROVIDE CAPACTITOR–START SINGLE–PHASE MOTORS FOR 3/4 HP AND SMALLER, EXCEPT FOR 1/6 HP AND SMALLER MAY, AT EQUIPMENT MANUFACTURER'S OPTION, BE SPLIT–PHASE TYPE. COORDINATE CURRENT CHARACTERISTICS WITH POWER SPECIFIED IN DIVISION–26 SECTIONS, AND WITH INDIVIDUAL EQUIPMENT REQUIREMENTS SPECIFIED IN OTHER DIVISIONS 20, 21, 22 AND 23 REQUIREMENTS. FOR 2–SPEED MOTORS PROVIDE 2 SEPARATE WINDINGS ON POLYPHASE MOTORS. DO NOT PURCHASE MOTORS UNTIL POWER CHARACTERISTICS AVAILABLE AT LOCATIONS OF MOTORS HAVE BEEN CONFIRMED, AND UNTIL ROTATION DIRECTIONS HAVE BEEN CONFIRMED.
D. SERVICE FACTOR: 1.15 FOR POLYPHASE MOTORS AND 1.35 FOR SINGLE–PHASE MOTORS.

C. MOTOR CONSTRUCTION
1. PROVIDE GENERAL PURPOSE, CONTINUOUS DUTY MOTORS. DESIGN "B", EXCEPT "C" WHERE REQUIREED FOR HIGH STARTING TORQUE.
A. FRAMES: NEMA NO. 48.
B. BEARINGS: BALL OR ROLLER BEARINGS WITH INNER AND OUTER SHAFT SEALS, PERMANENTLY SEALED. WHERE BELT DRIVES AND OTHER DRIVES PRODUCE LATERAL OR AXIAL THRUST IN MOTOR, PROVDE BEARINGS DESIGNED TO RESIST THRUST LOADING. REFER TO INDIVIDUAL SECTIONS OF DIVISIONS 20, 21, 22 AND 23 FOR FRACTIONAL–HP LIGHT–DUTY MOTORS WHERE SLEEVE–TYPE BEARINGS ARE PERMITTED.
C. ENCLOSURE TYPE: EXCEPT AS OTHERWISE INDICATED PROVIDE OPEN DROP–PROOF MOTORS FOR INDOOR USE WHERE SATISFACTORILY HOUSED OR REMOTELY LOCATED DURING OPERATION, AND PROVIDE GUARDED DRIP–PROOF MOTORS WHERE EXPOSED TO CONTACT BY EMPLOYEES OR BUILDING OCCUPANTS. PROVED WEATHER–PROTECTED TYPE I FOR OUTDOOR USE TYPE II WHERE NOT HOUSED. REFER TO INDIVIDUAL SECTIONS OF DIVISIONS 20, 21, 22 AND 23 FOR OTHER ENCLOSURE REQUIREMENTS.
D. OVERLOAD PROTECTION: PROVIDE BUILT–IN THERMAL OVERLOAD PROTECTION FOR 120V MOTORS
E. EFFICIENCY: MOTORS ARE TO BE "ENERGY EFFICIENT" HAVING MINIMUM EFFICIENCY AS SCHEDULED IN ACCORDANCE WITH IEEE STANDARD 112, TEST METHOD B.
F. PROVIDE MOTORS WITH MINIMUM 85% POWER FACTOR. WHERE LESS THAN 85% PROVIDE POWER FACTOR CORRECTION TO MINIMUM 90% PER ENERGY CODES.

D. NAMEPLATE
PROVIDE METAL NAMEPLATE ON EACH MOTOR, INDICATING FULL IDENTIFICATION OF MANUFACTURER RATINGS, CHARACTERISTICS, CONSTRUCTION, SPECIAL FEATURES, AND SIMILAR INFORMATION.

2.02 STARTERS, ELECTRICAL DEVICES AND WIRING

A. MOTOR STARTER MANUFACTURER
1. EXCEPT WHERE ITEM OF MECHANICAL EQUIPMENT MUST BE INTEGRALLY FURNISHED WITH MOTOR START PRODUCED BY ANOTHER MANUFACTURER, PROVIDE MOTOR STARTERS FOR MECHANICAL EQUIPMENT MANUFACTURED BY ONE OF THE FOLLOWING: CUTLER–HAMMER, GE OR SQUARE D.

B. MOTOR STARTER CHARACTERISTICS
1. COMPLY WITH NEMA STANDARDS AND NEC. PROVIDE TYPE I GENERAL PURPOSE ENCLOSEURES WITH PAD LOCK EARS, AND WITH FRAMES AND SUPPORTS FOR MOUNTING ON WALL, FLOOR OR PANEL AS INDICATED. PROVIDE TYPE AND SIZE OF STARTER RECOMMENDED BY MOTOR MANUFACTURER AND EQUIPMENT MANUFACTURER FOR APPLICABLE PROTECTION AND START–UP CONDITION; REFER TO INDIVIDUAL EQUIPMENT SECTIONS FOR BASIC LOAD REQUIREMENTS.
A. MANUAL SWITCHES: PROVIDE MANUAL SWITCH AND PILOT LIGHT FOR MOTORS 1/2 HP AND SMALLER, EXCEPT WHERE INTERLOCK OR AUTOMATIC OPERATION IS INDICATED.
1. OVERLOAD PROTECTION: PROVIDE MELTING ALLOY TYPE THERMAL OVERLOAD RELAYS.
B. MAGNETIC STARTERS: PROVIDE MAGNETIC STARTERS FOR PHASE 3 MOTORS AND FOR SMALLER MOTORS WHERE INTERLOCK OR AUTOMATIC OPERATION IS INDICATED. INCLUDE THE FOLLOWING:
1. HAND–OFF–AUTO SWITCH AND PILOT LIGHTS , PROPERLY ARRANGED FOR SINGLE–SPEED OR MULTI–SPEED OPERATION AS INDICATED.
2. TRIP–FREE THERMAL OVERLOAD RELAYS, EACH PHASE.
3. INTERLOCKS, PNEUMATIC SWITCHES, AND SIMILIAR DEVICES AS REQUIRED FOR COORDINATION WITH CONTROL REQUIREMENTS OF DIVISION 23 CONTROLS SECTIONS.
4. BUILT–IN 120–VOLT CONTROL CIRCUIT TRANSFORMER, FUSED FROM LINE SIDE, WHERE SERVICE EXCEEDS 240 VOLTS. WHEN A TRANSFORMER ISN'T USED THE CONTROL COIL SHALL BE FUSED.
5. EXTERNALLY OPERATED MANUAL RESET.
6. UNDERVOLTAGE RELEASE OR PROTECTION FOR EACH PHASE.

PART 3 – EXECUTION
3.01 STARTERS

A. FURNISH STARTERS AND WIRING FOR MOTORS. INSTALLATION BY DIVISION 26.

3.02 MOTORS

A. INSTALL MOTORS ON MOUNTING SYSTEMS IN ACCORDANCE WITH MOTOR MANUFACTURER'S INSTRUCTIONS, SECURELY ANCHORED TO RESIST TORQUE, DRIVE THRUSTS, AND OTHER EXTERNAL FORCES INHERENT IN MECHANICAL WORK. SECURE SHEAVES AND OTHER DRIVE UNITS TO MOTOR SHAFTS WITH KEYS AND ALLEN SET SCREWS, EXCEPT MOTORS OF 1/3 HP AND LESS MAY BE SECURED WITH ALLEN SCREWS ON FLAT SURFACES OF SHAFT. UNLESS OTHERWISE INDICATED, SET MOTOR SHAFTS PARALLEL WITH MACHINE SHAFTS.

3.03 EQUIPMENT FABRICATION

A. FABRICATE MECHANICAL EQUIPMENT FOR SECURE MOUNTING OF MOTORS AND OTHER ELECTRICAL ITEMS INCLUDING IN WORK. PROVIDE EITHER PERMANENT ALIGHMENT OF MOTORS WITH EQUIPMENT, OR ADJUSTABLE MOUNTINGS AS APPLICABLE FOR BELT DRIVES, GEAR DRIVES, SPECIAL COUPLINGS AND SIMILAR INDIRECT COUPLING OF EQUIPMENT. PROVIDE SAFE, SECURE, DURABLE AND REMOVABLE GUARDS FOR MOTOR DRIVES, ARRANGED FOR LUBRICATION AND SIMLIAR RUNNING MAINTENANCE WITHOUT REMOVAL OF GAURDS.

END OF SECTION 200513

SECTION 200515 MECHANICAL IDENTIFICATION

PART 1 – GENERAL
1.01 GENERAL REQUIREMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTIONS.

1.02 STANDARDS

A. ANSI COMPLIANCE
COMPLY WITH ANSI A13.1 FOR LETTERING SIZE, COLORS, AND INSTALLED VIEWING ANGLES OF IDENTIFICATION DEVICES.

PART 2 – PRODUCTS
2.01 ENGRAVED PLASTIC–LAMINATE SIGNS

A. PROVIDE ENGRAVED STOCK MELAMINE PLASTIC LAMINATE, COMPLYING WITH FS L–P–387, ENGRAVED WITH ENGRAVER'S STANDARD LETTER STYLE OF SIZES AND WORDING, BLACK WITH WHITE CORE (LETTER COLOR) EXCEPT AS OTHERWISE INDICATED, PUNCHED FOR MECHANICAL FASTENING EXCEPT WHERE ADHESIVE MOUNTING IS NECESSARY BECAUSE OF SUBSTRATE. PROVIE 1/16" THICKNESS FOR UNITS UP TO 20 SQ. IN. OR 8" LENGTH; 1/8" FOR LARGER UNITS. PROVIDE FASTENING PER SELF–TAPPING STAINLESS STEEL SCREWS, EXCEPT CONTACT–TYPE PERMANENT ADHESIVE WHERE SCREWS CANNOT OR SHOULD NOT PENETRATE SUBSTRATE. PROVIDE FOR ALL EQUIPMENT.

2.02 ELECTRICAL EQUIPMENT

A. ON ALL MECHANICAL EQUIPMENT THAT HAS POWER CONNECTORS, PROVIDE WITH PERMANENT MARKER, THE ELECTRICAL PANEL AND BREAKER NUMBER. MARK ON DISCONNECT.

PART 3 – MECHANICAL EQUIPMENT IDENTIFICATION

A. MEHCNAICAL EQUIPMENT IDENTIFICAION
INSTALL ENGRAVED PLASTIC LAMINATE SIGN ON OR NEAR EACH MAJOR ITEM OF MECHANICAL EQUIPMENT AND EACH OPERATING DEVICE. PROVIDE SIGNS FOR WATER HEATERS, FANS, HVAC UNITS AND OTHER OPERATIONAL DEVICES.

SECTION 200593 TESTING, ADJUSTING AND BALANCING (TAB)

PART 1 – GENERAL
1.01 DESCRIPTION

A. GENERAL REQUIREMENTS
DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

1.02 INDUSTRY STANDARDS

A. ALL TESTING, ADJUSTING AND BALANCING OF ALL WORK SHALL BE PERFORMED BY AN INDEPENDENT CONTRACTOR WHO IS CURRENTLY LICENSED ASSOCIATED AIR BALANCING COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) BALANCING CONTRACTOR. NO OTHER BALANCE REPORTS WILL BE REVIEWED OR ACCEPTED. ALL BALANCING MUST BE COMPLETE AND DONE IN ACCORDANCE WITH THE MOST RECENT STANDARDS OF THEIR SOCIETY. ALL BALANCING WORK SHALL BE PERFORMED WITH ACCORDANCE WITH LOCAL CODES AND THIS SECTION.

1.03 SUBMITTALS

A. SUBMIT CERTIFIED TEST REPORTS SIGNED BY TEST AND BALANCE SUPERVISOR WHO PERFORMED TAB WORK. SUBMIT RECORD HVAC PLAN SHOWING ALL VOLUME DAMPER & REMOTE VOLUME DAMPER OPERATOR LOCATIONS & CONNECTION LINKAGE.
B. THE BALANCE REPORT SHALL BE ON THE AABC NATIONAL STANDARD REPORT FORMS OR THE NEEB CERTIFIED REPORT FORMS AS PUBLISHED IN THEIR MOST CURRENT EDITIONS AND SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION.
1. AABC OR NEBB CERTIFICATION NUMBER AND SIGNATURE OF BALANCING CONTRACTOR
2. COPY OF A CERTIFICATE OF CONFORMANCE WITH NATIONAL STANDARDS FOR THIS PROJECT
3. INSTRUMENTATION LIST WITH LAST CALIBRATION DATES.
4. MAKE AND MODEL NUMBERS OF ALL HVAC EQUIPMENT.
5. AIR CFM AND STATIC PRESSURE READINGS (DISCHAGE AND SUCTION) AS MEASURED BY PITOT TUBE DUCT TRAVERSE AT THE UNIT.
6. MOTOR NAMEPLATE DATA WITH ACTUAL FIELD VOLTAGE AND AMPERAGE READINGS FOR EACH LEG.
7. MOTOR AND FAN R.P.M.'S SHEAVE SIZES AND BELT SIZES.
8. OUTSIDE, RETURN MIXED AND SUPPLY AIR TEMPERATURES AND VOLUMES SHALL BE MEASURED AT FULL COOLING WITH MINIMUM OUTSIDE AIR. RETURN/RELIEF/SMOKE EVACUATION AIRFLOW SHALL BE BALANCED AND MEASUREMENTS RECORDED BY PILOT DUCT TRAVERSE AT FULL ECONOMIZER AND POWER EXHAUST.
9. MAKE AND MODEL NUMBERS OF ALL AIR DISTRIBUTION EQUIPMENT.
10. FINAL BALANCED AIR VOLUMES AT ALL OUTLETS (INCLUDING RETURNS WHERE DUCTED).
11. INDEXED PLAN WITH DIFFUSER AND RETURN LOCATIONS ALSO INDICATE IF DIFFUSER IS 3–WAY OR 2–WAY.
12. BALANCING DATA FOR CONDENSER WATER, CHILLED WATER OR HEATING HOT WATER SYSTEM (WHERE APPLICABLE).
C. FIVE COPIES OF THE BALANCE REPORT SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL. PROVIDE ONE COPY OF APPROVED REPORT TO LANDLORD UPON COMPLETION OF CONSTRUCTION FOR THE PREMISE AS A REQUIREMENT TO OPEN FOR BUSINESS.

1.04 JOB CONDITIONS

C. WORK WILL NOT PROCEED WITH TESTING, ADJUSTING AND BALANCING WORK UNTIL WORK HAS BEEN COMPLETED AND IS OPERABLE. ENSURE THAT THERE IS NO LATENT RESIDUAL WORK STILL TO BE COMPLETED. INFORM ARCHITECT IN WRITING WHEN PROJECT IS READY FOR ADJUSTING AND BALANCING.
D. REFER TO LANDLORD TENANT CRIERIA MANUAL FOR SYSTEM BALANCING REQUIRED AS PART OF TENANT WORK

PART 2 – PRODUCTS
2.01 GENERAL

A. MECHANICAL SUB CONTRACTOR SHALL PROVIDE ALL MOTORS, SHEAVES, BELTS, LADDERS, ETC. AS REQUIRED FOR BALANCER TO ACCOMPLISH WORK.
B. BALANCING SUB CONTRACTOR SHALL BE HIRED BY THE GENERAL CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CONTRACTOR, SEPERATE COMPANY FROM THE MECHANICAL SUB CONTRACTOR. COORDINATE WITH LANDLORD. LANDLORD MAY REQUIRE SPECIFIC CONTRACTOR FOR BALANCING.

PART 3 – EXECUTION
3.01 GENERAL

A. EXAMINE INSTALLED WORK AND CONDITIONS UNDER WHICH TESTING IS TO BE DONE TO ENSURE THAT WORK HAS BEEN COMPLETED, CLEANED AND IS OPERABLE. DO NOT PROCEED WITH TAB WORK UNTIL UNSTATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN MANNER ACCEPTABLE TO TESTER.
B. TEST, ADJUST AND BALANCE AIR CONDITIONING SYSTEMS AND COMPONENTS, AS INDICATED, IN ACCORDANCE WITH PROCEDURES OUTLINED IN APPLICABLE STANDARDS. REFER TO LANDLORD TENANT CRITERIA MANUAL FOR SYSTEM BALANCING REQUIRED AS PART OF TENANT WORK.
C. PREPARE REPORT OF TEST RESULTS IN FORMAT RECOMMENDED BY APPLICABLE STANDARDS.
D. PATCH HOLES IN INSULATION, DUCTWORK AND HOUSING, WHICH HAVE BEEN CUT OR DRILLED IN MANNER RECOMMENDED BY THE ORIGINAL INSTALLER.
E. MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS, VALVE INDICATORS, FAN SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, TO SHOW FINAL SETTINGS AT COMPLETTION OF BALANCE WORK. PROVIDE MARKINGS WITH PAINT OR OTHER SUITABLE PERMANENT IDENTIFICATION MATERIALS.
F. INITIAL BALANCING SHALL INCLUDE BALANCING ALL AIR QUANTITIES TO 10% OF THOSE LISTED ON THE DRAWINGS.
G. BALANCER SHALL THEN CHECK ALL BUILDING TEMPERATURES AND READJUST AIR QUANTITES TO EVEN OUT SPACE TEMPERATURES TO WITHIN 1 DEG. F WITHIN SPACES.
H. TESTING, ADJUSTING AND BALANCING REPORT MUST BE COMPLETE AND TURNED OVER TO TENANT PROJECT MANAGER 1 WEEK PRIOR TO STORE TURNOVER.
I. THE HVAC SUB CONTRACTOR SHALL BE PRESENT FOR AIR BALANCE TO VERIFY ACCESSIBILITY TO ALL DEVICES, VERIFY ALL OPERATING SEQUENCES AND INSTALL NEW FILTERS IN ALL UNITS JUST PRIOR TO THE AIR BALANCE. THE COMPLETE AIR BALANCE SHALL TAKE PLACE WITH OUTSIDE AIR DAMPERS IN MINIMUM POSITION, EXCEPT AS NOTED OTHERWISE. HVAC SUB CONTRACTOR SHALL ALSO INSTALL A NEW SET OF FILTERS AFTER PROJECT IS COMPLETE.
J. BALANCE AIR TO WITHIN PLUS/MINUS 10% OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS, PULLEYS OR THE ADDITION OF DAMPERS REQUIRED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PERFORMED BY THE HVAC SUB CONTRACTOR WITH NO ADDITIONAL COST TO TENANT OR THE LANDLORD.
K. THE BALANCING SUB CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTING AND BALANCING FUNCTIONS REQUIRED FOR THE SYSTEM DESIGNED ON THESE DRAWINGS. ALL SYSTEMS UNABLE TO BE COMPLETELY BALANCED AT THE TIME OF ORIGINAL BALANCE MUST BE BALANCED IN FUTURE AT NO ADDITIONAL EXPENSE TO THE TENANT. THE BALANCING CONTRACTOR SHALL RECHECK ANY ITEMS THAT TENANT DEEMS NECESSARY AT NO ADDITIONAL COST TO THE TENANT.
L. PROVIDE BALANCING OF NEW AND EXISTING (IF PRESENT) HVAC SYSTEMS.

END OF SECTION 200593

SECTION 200700 MECHANCIAL INSULATION

PART 1 – GENERAL
1.01 GENERAL REQUIREMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTION. AT A MINIMUM, INSULATION VALUES SHALL MEET THE REQUIREMENTS OF THE STATE ENERGY CODE, IF APPLICABLE.

1.02 FLAME/SMOKE RATINGS

A. PROVIDE COMPOSITE MECHANICAL INSULATION (INSULATION, JACKETS, COVERINGS, SEALER, MASTICS AND ADHESIVES) WITH FLAME SPREAD INDEX AT 25 OR LESS, AND SMOKE DEVELOPED INDEX OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 225) METHOD.

PART 2 – PRODUCTS
2.01 MATERIALS

A. GLASS FIBER PIPE INSULATION: ASTM C 1136 & 547 TYPE I.
B. GLASS FIBER PIPE FITTING INSULATION: ASTM C 553.
C. GLASS FIBER DUCT WRAP INSULATION: ASTM C 553–92, 1290–95, 1136 & 1138–90 TYPE II

2.02 MANUFACTURERS

A. ONE OF THE FOLLOWING:
1. CERTAIN TEED CORP., KNAUF FIBER GLASS, MANVILLE CORP., OWENS–CORNING FIBERGLASS CORP., IMCOA, NOMACO.

2.03 PIPING INSULATION

A. OMIT INSULATION ON EXPOSED PLUMBING FIXTURE RUN–OUTS, (EXCEPT AT HANDICAPPED FIXTURES) FROM FACE OF WALL OR FLOOR TO FIXTURE, ON UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND EXPANSION JOINTS.
1. INSULATE THE FOLLOWING COLD PIPING SYSTEMS:
A. DOMESTIC COLD WATER AND CONDENSATE DRAIN PI

PART 3 – EXECUTION

3.01 INSTALLATION – PIPE AND DUCT INSULATION.
A. EXAMINE AREAS AND CONDITIONS UNDER WHICH MECHANICAL INSULATION WILL BE INSTALLED. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
B. INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT INSULATION SERVES ITS INTENDED PURPOSE.
C. INSTALL INSULATION ON MECHANICAL SYSTEMS SUBSEQUENT TO TESTING AND ACCEPTANCE OF TESTS.
D. CLEAN AND DRY MECHANICAL SURFACES PRIOR TO INSULATING. BUTT INSULATION JOINTS FIRMLY TOGETHER TO ENSURE COMPLETE AND TIGHT FIT OVER SURFACES TO BE COVERED.
E. MAINTAIN INTEGRITY OF VAPOR–BARRIER JACKETS ON MECHANICAL INSULATION AND PROTECT TO PREVENT PUNCTURE OR OTHER DAMAGE.
F. COVER VALVES FITTINGS AND SIMILAR ITEMS IN EACH PIPING SYSTEM WITH EQUIVALENT THICKNESS AND COMPOSITION OR EFFICIENCY OF INSULATION AS APPLIED TO ADJOINING PIPE RUN.
G. EXTEND MECHANICAL INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED.
H. INSTALL PROTECTIVE METAL SHIELDS AND INSULATED SADDLES TO PREVENT COMPRESSION OF INSULATION.
I. REPAIR DAMAGED SECTIONS OF EXISTING MECHANICAL INSULATION, DAMAGED DURING THIS CONSTRUCTION PERIOD. USE INSULATION OF SAME THICKNESS AS EXISTING INSULATION, INSTALL NEW JACKET LAPPING AND SEALED OVER EXISTING.

END OF SECTION 200700

PART 1 – GENERAL

1. PROVIDE MECHANICAL SYSTEMS COMMISSIONING IN ACCORDANCE WITH LOCAL ENERGY CODE AND THE REQUIREMENTS OF THIS SPECIFICATION. ALL CONTROL SEQUENCES SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
2. PROVIDE CHECK OUT OF ALL PLUMBING SYSTEMS FOR PROPER OPERATION INCLUDING HOT AND COLD WATER AT ALL FAUCETS, WATER HEATERS SET FOR PROPER TEMPERATURE, OPERATION OF ALL VALVES, GREASE TRAPS, GAS VALVES, MIXING VALVES. RECORD DATA ON ALL DEVICES CHECKED AND THE STATUS OF THEIR OPERATION.
3. VERIFY SMOKE DETECTOR SHUTDOWN OF ANY FAN UNITS SCHEDULED FOR SMOKE DETECTOR SHUTDOWN.
4. VERIFY PROPER OPERATION OF ANY OTHER HVAC EQUIPMENT THAT IS INTERLOCKED WITH OTHER EQUIPMENT.
5. CHILLED WATER UNITS: OPERATE SYSTEM IN COOLING MODE; RECORD OUTSIDE AIR TEMPERATURE, MIXED AIR TEMPERATURE, SUPPLY AIR TEMPERATURE. VERIFY THAT COOLING COIL SENSIBLE CAPACITY MATCHES THE TEMPERATURE DROP ON THE COOLING COIL VIA THE FORMULA COOLING CAPACITY (BTU/H) = AIRFLOW(CFM) X (1.1) X DELTA T (MIXED AIR TEMPERATURE DEGREES F). VERIFY THE OPERATION OF ANY CONTROL VALVES WHERE PRESENT (CHILLED WATER). VERIFY THAT EACH AHU OPERATES WITH THE CORRECT THERMOSTAT/SENSOR. SET THERMOSTATS FOR 70°F HEATING SETPOINT AND 73°F COOLING SETPOINT. FANS SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE AND CYCLE ON/OFF DURING UNOCCUPIED MODE. SETUP AND VERIFY HOURS ON OPERATION (TIME SCHEDULE) FOR OCCUPIED/UNOCCUPIED MODE AND HOLIDAY/WEEKEND SCHEDULING.

DIVISION 21 – FIRE SUPPRESSION

END OF SECTION 200800

SECTION 211000 FIRE PROTECTION SYSTEM

PART 1 – GENERAL

1.01 DESCRIPTION
A. GENERAL INFORMATION:
1. THE OTHER CONTRACT DOCUMENTS COMPLEMENT THE REQUIREMENTS OF THIS SECTION.
2. REQUIREMENTS OF DIVISION 00 AND DIVISION 01 APPLY TO THE WORK OF THIS SECTION.

1.02 WORK INCLUDED
A. INSIDE AND OUTSIDE PIPING, INCLUDING SPRINKLER HEADS, VALVES, HANGERS AND SUPPORTS, SLEEVES, AND ACCESSORIES.
B. THE DRAWINGS SHOW THE LOCATION OF SOME OF THE COMPONENTS. THE CONTRACTOR SHALL PROVIDE A COMPLETE DESIGN AND INSTALLATION TO PROVIDE SPRINKLER PROTECTION FOR THE AREAS SHOWN CONFORMING TO ALL NFPA 13 REQUIREMENTS AND LOCAL JURISDICTION REQUIREMENTS.
1. PROVIDE SPRINKLER PROTECTION FOR THE BUILDING INCLUDING COMBUSTIBLE VOID SPACES, CEILING SPACES, ATTIC SPACES, AND IN ACCORDANCE WITH NFPA 13 AND LOCAL JURISDICTION REQUIREMENTS. NOTE THAT SMOKE/HEAT DETECTORS WILL NOT BE PROVIDED IN VOID SPACES, THEREFORE SPRINKLER PROTECTION IS REQUIRED ABOVE CEILINGS AND IN VOID SPACES.

1.03 QUALITY ASSURANCE
A. SPRINKLER EQUIPMENT LAYOUT AND INSTALLATION APPROVED BY THE FIRE MARSHALL.
B. EQUIPMENT AND INSTALLATION TO MEET REQUIREMENTS OF NFPA NO. 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
C. ONLY CONTRACTORS AND WORKMEN EXPERIENCED IN, AND REGULARLY ENGAGED IN THE INSTALLATION OF FIRE SPRINKLER SYSTEMS SHALL BE PERMITTED TO INSTALL THE SPECIFIED SYSTEM(S). THE SPRINKLER CONTRACTOR SHALL MEET ALL LEGAL REQUIREMENTS REQUIRED BY THE STATE OR LOCAL JURISDICTION AND SHALL BE LICENSED TO PREPARE SPRINKLER DRAWINGS AND INSTALL FIRE PROTECTION SYSTEMS.
D. THE GENERAL CONTRACTOR AND THE SPRINKLER SUB–CONTRACTOR SHALL MEET WITH THE LOCAL BUILDING DEPARTMENT AND FIRE DEPARTMENT TO REVIEW PROCEDURES FOR HANDLING SUBMITTALS, TESTING AND FOR GENERAL COORDINATION.
E. PROVIDE ARCHITECT WITH A LETTER OF APPROVAL FROM THE FIRE MARSHAL AFTER INSTALLATION IS COMPLETE.

1.04 REFERENCE STANDARDS
A. NFPA STANDARD NO. 13 CURRENT EDITION: SPRINKLER SYSTEMS.
B. UNDERWRITERS LABORATORIES APPROVED FIRE PROTECTION EQUIPMENT LIST.

1.05 SUBMITTALS
A. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SECTION 013300.
B. SUBMIT PRELIMINARY LAYOUT SHOWING ONLY HEAD LOCATIONS FOR REVIEW BY ARCHITECT/ENGINEER. FURNISH ADDITIONAL HEADS WHICH MAY BE REQUIRED FOR COORDINATED CEILING PATTERN WITHOUT ADDED COST, EVEN THOUGH NUMBER OF HEADS MAY EXCEED MINIMUM CODE REQUIREMENTS. AT 2X4 GRID CEILINGS, HEADS SHALL BE LOCATED A MINIMUM OF 2" FROM ANY GRID MEMBER.
C. SUBMIT SHOP DRAWINGS STAMPED BY A LICENSED INDIVIDUAL (MINIMUM OF NICET LEVEL III OR REGISTERED FIRE PROTECTION ENGINEER) OF THE ENTIRE SPRINKLER SYSTEM, FOR REVIEW BY ARCHITECT. AFTER ARCHITECT'S COMMENTS HAVE BEEN ADDRESSED SUBMIT SHOP DRAWINGS TO BUILDING DEPARTMENT/FIRE MARSHAL FOR APPROVAL. COMPLETION OF SHOP DRAWINGS SHALL BE DONE SO THAT FIRE MARSHAL CAN REVIEW FIRE ALARM SHOP DRAWINGS WITH FIRE SPRINKLER SHOP DRAWINGS. COORDINATE AS REQUIRED WITH FIRE ALARM SUB–CONTRACTOR.
D. OBTAIN AND SUBMIT FROM EACH AUTHORITY HAVING JURISDICTION WRITTEN CERTIFICATION THAT THE PERMANENT INSTALLATION HAS BEEN INSPECTED BY THE AUTHORITY AND THAT IT COMPLIES WITH ALL DETAILS OF THE AUTHORITY'S PUBLISHED REGULATIONS AND REQUIREMENTS.

1.06 ADDITIONS OR DELETIONS
A. NO CHANGE ORDERS WILL BE ISSUED FOR ADDITIONS OR DELETIONS OF SPRINKLERS EXCEPT AS SUCH ADDITIONS OR DELETIONS STEM FROM CHANGES IN BUILDING CONSTRUCTION MADE SUBSEQUENT TO APPROVAL OR SPRINKLER SYSTEM SHOP DRAWINGS.

1.07 SYSTEM DESIGN
A. GENERAL: DESIGN AND INSTALL SYSTEMS SO THAT NO PARTS INTERFERE WITH DOORS, WINDOWS, HEATING, PLUMBING, AIR–CONDITIONING SYSTEMS OR ELECTRICAL EQUIPMENT. COMPLY WITH REQUIREMENTS OF NFPA NO. 13. SPRINKLER SUB–CONTRACTOR IS REQUIRED TO FULLY COORDINATE SPRINKLER WORK WITH ALL OTHER TRADES. PIPING SHALL NOT RUN OVER TOP OF ELECTRICAL PANELS OR SWITCH GEAR.
B. HYDRAULIC CALCULATIONS: PREPARE IN ACCORDANCE WITH NFPA NO. 13.
C. SYSTEM LAYOUT:
1. SPACE, LOCATE, AND POSITION SPRINKLER HEADS ACCORDING TO NFPA NO. 13 AND AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY LOCAL FIRE MARSHALL AND BUILDING DEPARTMENT.
2. PIPE SIZES AND CONFIGURATIONS SHALL BE ON THE BASIS OF HYDRAULIC CALCULATIONS.
3. PROVIDE RISERS, FLOW SWITCHES, INSIDE SHUT–OFF VALVES, TAMPER SWITCHES, POST INDICATOR VALVES, BACK FLOW PREVENTERS AND VAULTS, ETC., AS REQUIRED.
4. PROVIDE IN GENERAL, ORDINARY HAZARD WET SPRINKLER COVERAGE. PROVIDE ORDINARY HAZARD COVERAGE WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
5. PROVIDE ALL TAMPER SWITCHES, VALVES, ETC. REQUIRED. THE SYSTEM SHALL HAVE CONTROL STATION SUPERVISION.

PART 2 – PRODUCTS
2.01 ACCEPTABLE MANUFACTURERS
A. MANUFACTURERS OF EQUIPMENT SPECIFIED IN THIS SECTION SHALL BE REGULARLY ENGAGED IN THE MANUFACTURE OF COMPONENTS SPECIFIED AND SHALL PUBLISH CATALOGS LISTING ALL PERTINENT SPECIFICATIONS OF ITEMS MANUFACTURED.
B. MANUFACTURERS NAME AND MODEL IDENTIFICATION USED THROUGHOUT THIS SECTION IS TO ESTABLISH GENERAL CONFIGURATION, FUNCTION, SIZE PERFORMANCE AND QUALITY.
C. ALL EQUIPMENT, MATERIAL, AND COMPONENTS SHALL BE U.L. LISTED OR APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
D. SUBSTITUTIONS: NOT ALLOWED

2.02 SPRINKLER HEADS
A. PROVIDE AUTOMATIC SPRAY TYPE SPRINKLER HEADS OF THE FOLLOWING TYPE AND FINISH FOR THE AREAS AND CEILING CONSTRUCTION DESIGNATED:
B. MANUFACTURERS AND TYPE:
1. FLUSH TYPE CONCEALED: VIKING HORIZON MIRAGE MODEL VK404 CONCEALED AUTOMATIC CEILING SPRINKLER.
2. UPRIGHT: RELIABLE MODEL G UPRIGHT OR APPROVED VIKING EQUAL.
3. SIDEWALL: RELIABLE MODEL F1 WITH 1/2" ORIFICE OR APPROVED VIKING EQUAL.
4. DRY PENDENT OR SIDEWALL: RELIABLE MODEL G3 AND G3A DRY SPRINKLERS WITH 1/2" ORIFICE OR APPROVED VIKING EQUAL.
C. OPERATING TEMPERATURE: PER NFPA 13. SELECT TO COMPENSATE FOR THE MAXIMUM TEMPERATURES WHICH OCCUR IN A PARTICULAR AREA DURING EITHER WINTER OR SUMMER CONDITIONS FROM SUCH SOURCES AS UNIT HEATERS AND SUNLIGHT.
D. EXTENDED COVERAGE SPRINKLERS MAY BE USED SUBJECT TO THE AUTHORITY HAVING JURISDICTION.

2.03 ESCUTCHEONS
A. PROVIDE SELF–ADJUSTING TYPE, SPRING–LOADED, OR FRICTION FIT ON EACH PENDANT SPRINKLER HEAD FITTING AGAINST CEILING.

2.04 SPARE HEADS AND SPRINKLER WRENCHES
A. PROVIDE SPARE HEADS AND ONE SET OF WRENCHES. THE NUMBER OF SPARE HEADS FURNISHED SHALL BE NOT LESS THAN 1 PERCENT OF THE NUMBER OF EACH TYPE OF HEAD INSTALLED IN THE SYSTEM. HEADS AND WRENCHES MOUNTED IN A SHEET METAL CABINET MARKED "AUTOMATIC SPRINKLERS – RESERVE SUPPLY".

2.05 WATER FLOW INDICATORS (FLOW SWITCHES)
A. PROVIDE VANE TYPE FLOW SWITCHES WHERE INDICATED ON DRAWINGS AND HWERE REQUIRED. GRINNELL MODEL F620 OR WFD.

2.06 VALVE MONITORING SWITCHES
A. PROVIDE SUPERVISORY DEVICE FOR EACH OS&Y GATE VALVE AND EACH VALVE REQUIRING SUPERVISION. GRINNELL MODEL F640. PROVIDE ALSO FOR P.I.V.'S SHOWN ON CIVIL DRAWINGS.

2.07 DETECTION CHECK VALVE ASSEMBLY
A. CENTRAL SPRINKLER CORPORATION, RISER CHECK VALVE WITH TRIM, MODEL 90 (SHOTGUN–90). PROVIDE DETECTION CHECK VALVES FOR WET SYSTEMS COMPLETE WITH FITTINGS, INTERCONNECTING PIPING, TAMPER SWITCHES AND DEVICES REQUIRED FOR VALVE OPERATION.

PART 3 – EXECUTION
3.01 INSTALLATION
A. RUN PIPING CONCEALED ABOVE FURRED CEILINGS TO MINIMIZE OBSTRUCTIONS. EXPOSE ONLY HEADS. ONLY SPRINKLER PIPING SPECIFICALLY CALLED OUT ON DRAWINGS AS BEING EXPOSED SHALL BE BELOW CEILING CONSTRUCTION. RUN PIPING THROUGH HOLES IN BEAMS WHERE SO NOTED ON DRAWINGS.
B. PROVIDE 1" DIAMETER NIPPLE AND 1" X 1/2" REDUCING FITTING FOR EACH UPRIGHT HEAD.
C. INSTALL SYSTEM AND AUXILIARY DRAINS TO DISCHARGE TO THE OUTSIDE AT PLANTER AREAS, TO A SUITABLE WASTE WITHIN THE BUILDING OR TO OTHER LOCATIONS AS INDICATED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION. DRAINS SHALL NOT DISCHARGE ONTO WALKWAYS OR PAVING. DRAIN LOCATIONS SHALL BE APPROVED BY THE ARCHITECT. LABEL PANEL "SPRINKLER SYSTEM DRAIN VALVE #32, ETC." PROVIDE MAIN SPRINKLER SYSTEM DRAIN.
D. INSTALL TEST PIPES PER NFPA AND THE LOCAL AUTHORITY HAVING JURISDICTION WITH DISCHARGE PIPE TO A SUITABLE DRAIN. NAMEPLATE LEGEND TO READ "WATER SUPPLY TEST VALVE".
E. REFER TO COORDINATION REQUIREMENTS IN PARAGRAPH 1.07.
F. THE INSTALLER OF THE FIRE PROTECTION (SPRINKLERS) SHALL BE FAMILIAR WITH THE ARCHITECTURAL CONSTRUCTION OF THE BUILDING. THE INSTALLER SHALL REVIEW ALL CONTRACT DOCUMENTS. SPRINKLER PIPING SHALL NOT:
1. REDUCE HEADROOM TO LESS THAN 7'–0".
2. PROJECT INTO ANY CATWALK, PASSAGEWAY, LADDER RUN, ACCESS OR EGRESS.
3. INTERFERE WITH ELECTRICAL EQUIPMENT OR ACCESS TO MECHANICAL UNITS (INCLUDING FILTERS). SPRINKLER PIPING WHICH, IN THE OPINION OF THE ARCHITECT, DOES NOT COMPLY WITH ANY OF THE ABOVE SHALL BE RELOCATED IN A MANNER WHICH IS ACCEPTABLE TO THE ARCHITECT. SUCH RELOCATION MAY BE DIRECTED DURING SHOP DRAWING REVIEW AND/OR DURING CONSTRUCTION. IF DOUBT SHOULD EXIST AS TO THE COMPLIANCE OF THE ABOVE, THE CONTRACTOR OR INSTALLER SHALL REVIEW THE SITUATION WITH THE ARCHITECT PRIOR TO ROUGH–IN.
G. NO FIRE PROTECTION WORK SHALL BE DONE WITHOUT APPROVED SHOP DRAWINGS.

DIVISION 22 – PLUMBING

PART 1 – GENERAL
1.01 SCOPE OF WORK
FURNISH AND INSTALL COMPLETE AND OPERATIONAL PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATION. WORK SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
A. WATER, WASTE AND VENT PIPING SYSTEMS.
B. VERIFYING LOCATION OF EXISTING AND CONNECTIONS TO BUILDING WATER AND WER SYSTEMS.
C. ACCESS PANELS AS SHOWN AND REQUIRED BY CODE.
D. HANGERS, SUPPORTS AND GUIDES.
E. BACKING AND SECURING OF FLOOR AND WALL PENETRATIONS.
F. CAULKING AND SEALING OF FLOOR AND WALL PENETRATIONS.
G. PLUMBING FIXTURES, TRIM AND ACCESSORIES.
H. CUTTING, DRILLING AND PATCHING FOR PLUMBING SYSTEMS.
I. CLEANUP OF JOB SITE AND FIXTURES.
J. LICENSES, PERMITS AND FEES.

1.02 RELATED WORK INCLUDED UNDER OTHER SECTIONS
A. HVAC SECTION 233113
B. TESTING AND BALANCING SECTION 200593
C. ELECTRICAL DIVISION 26
D. FIRE PROTECTION SECTION 211000.

1.03 EXAMINATION OF SITE
A. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS INCLUDING ENTRANCE AND EXIT FACILITIES, ELEVATOR LIMITATIONS, HOURS OF PERMITTED BY THE BUILDING FOR TRANSPORTATION OF EQUIPMENT AND MATERIALS. CONTRACTOR SHALL SATISFY HIMSELF AS TO THE NATURE AND SCOPE OF THE WORK AND DIFFICULTIES THAT AFFECT THE EXECUTION AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL EXAMINE THE SITE AND DETERMINE WHERE THE EXISTING SEWER, WATER AND GAS ARE LOCATED FOR THE PURPOSE OF CONNECTING NEW SYSTEMS.
B. SUBMISSION OF A BID WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN AVOIDED HAD A PROPER EXAMINATION BEEN MADE WILL NOT BE COMPENSATED FOR OR RECOGNIZED.

1.04 DRAWINGS
A. THE DRAWINGS ARE GENERALLY DIAGRAMMTIC AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, AND FIXTURES.
B. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL CONTRACT DRAWINGS AND DRAWINGS OF OTHER TRADES.
C. THE CONTRACTOR SHALL WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OR OTHER TRADES AND STRUCTURAL MEMBERS OR FOR THE PROPER EXECUTION OF WORK.

1.05 RULES AND REGULATIONS
A. THE WORK AND MATERIALS SHALL CONFORM AND COMPLY WITH THE ORDINANCES, PLUMBING CODE AND MECHANICAL CODE ENFORCED AUTHORITY HAVING JURISDICTION INCLUDING THE NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION ASSOCIATION AND LANDLORDS DESIGN CRITERIA MANUAL. FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED TO COMPLY WITH THESE LAWS, ORDINANCES AND CODES THOUGH THE WORK BE NOT MENTIONED IN THIS SECTION OR SHOWN ON THE DRAWINGS.
B. CONTRACTOR SHALL OBTAIN ALL APPROVALS, TESTS, INSPECTIONS AND PERMITS, AND PAY ALL NECESSARY FEES FOR ALL WORK PERTAINING TO THIS PROJECT. ALL AGENCIES HAVING JURISDICTION SHALL BE COMPLIED WITH.

1.06 SHOP DRAWINGS AND MATERIALS SUBMITTALS
A. SUBMIT FOR REVIEW TO ARCHITECT (6 COPIES) A COMPLETE AND ALL–INCLUSIVE LIST OF ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE, ACCOMPANIED BY MANUFACTURER'S DATA SHEET GIVING SIZES, CAPACITIES, ETC. DATA SHALL BE FORWARDED IN A SINGLE PACKAGE WRITTEN 15 DAYS AFTER AWARD OF CONTRACT. CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT WITHOUT ENGINEER'S APPROVAL.
B. A SET OF "AS–BUILT" DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR SHOWING ALL EQUIPMENT AND PIPING AS INSTALLED IN THE FIELD, INCLUDING ALL SIZES AND CHANGES TO THE ORIGINAL DESIGN. A SET OF REPRODUCIBLE, ALONG WITH ONE SET OF BLUEPRINTS OF THESE "AS–BUILTS" SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE OF THIS PROJECT.
C. THE CONTRACTOR SHALL COORDINATE THE WORK ARCHITECTURAL DRAWINGS AND WORK OF OTHER TRADES.

1.07 ELECTRICAL WORK
A. THE FOLLOWING ELECTRICAL WORK SHALL BE PART OF DIVISION 22 PERFORMED IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS.
B. PLUMBING CONTRACTOR SHALL VERIFY THE ELECTRICAL CHARACTERISTICS REQUIRED OF ALL EQUIPMENT WITH THE ELECTRICAL DRAWINGS, ELECTRICAL CONTRACTOR, AND FIELD CONDITIONS PRIOR TO ORDERING ANY EQUIPMENT.
C. ALL POWER WIRING SHALL BE BY ELECTRICAL CONTRACTOR.

1.08 OPERATION MANUALS AND OWNER INSTRUCTIONS
A. CONTRACTOR SHALL FURNISH OPERATING AND MAINTENANCE INSTRUCTION AT THE COMPLETION OF THE INSTALLATION. SUBMIT THREE COPIES OF BOUND MANUALS.
B. AT THE COMPLETION OF WORK THE CONTRACTOR SHALL IN THE CONJUNCTION WITH THE OWNERS REPRESENTATIVES, ARRANGE A MEETING FOR FULL INSTRUCTION OF ALL DETAILS OF OPERATION AND MAINTENANCE FOR THE EQUIPMENT PROVIDED. CONTRACTOR SHALL PROVIDE EQUIPMENT CHECK LIST SHOWN ON THOSE DRAWINGS.

1.09 CUTTING AND PATCHING
A. THE CONTRACTOR SHALL DO ALL CUTTING, DRILLING AND PATCHING WHICH MAY BE REQUIRED FOR THE INSTALLATION OF THE WORK UNDER THIS SPECIFICATION.
B. PATCHING SHALL BE OF THE SAME WORKMANSHIP, MATERIAL AND FINISH, AND SHALL MATCH ACCURATELY ALL SURROUNDING CONSTRUCTION IN A MANNER SATISFACTORY TO THE ARCHITECT/ENGINEER.
C. NO CUTTING OF THE STRUCTURE SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
D. EXISTING UTILITIES ETC. THAT ARE DAMAGED DURING THE CONSTRUCTION PERIOD, WHETHER OR NOT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND LEFT IN A CONDITION SATISFACTORY TO THE ENGINEER.
E. PROVIDE FIRE–SAFTING WHERE PENETRATIONS OCCUR IN RATED ASSEMBLIES. FIRE–SAFTING SHALL MAINTAIN THE INTEGRITY OF THE ASSEMBLY.

1.10 GUARANTEE
THE CONTRACTOR SHALL LEAVE THE ENTIRE INSTALLATION IN COMPLETE WORKING ORDER FREE FROM ANY DEFECTIVE MATERIAL, WORKMANSHIP OR FINISH. THE CONTRACTOR SHALL GUARANTEE TO REPAIR OR REPLACE, WITHOUT CHARGE, DEFECTS DUE TO FAULTY WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING OF THE NOTICE OF COMPLETION.

PART 2 – PRODUCTS
2.01 PIPE AND FITTINGS
A. PIPE
1. SANITARY WASTE AND VENT: STANDARD WEIGHT CAST IRON AND FITTINGS WITH "NO–HUB" COUPLINGS. TYPE DWV COPPER WITH SANITARY DRAINAGE FITTINGS MAY BE USED.
2. DOMESTIC HOT AND COLD WATER PIPING: TYPE "L" HARD DRAWN COPPER PIPE AND WROUGHT COPPER FITTINGS WITH 95–5 TIN–ANTIMONY SOLDER. TYPE "K" UNDERGROUND WITH SILVER SOLDER JOINTS.

2.02 HANGERS AND SUPPORTS
A. SUPERSTRUT, GRINNEL OR APPROVED EQUAL. PROVIDE WHERE REQUIRED BY CODE A LAYER OF 15LB FELT SHALL BE PLACED BETWEEN COPPER AND FERROUS MATERIAL.

2.03 VALVES
A. BALL VALVES: 2" AND SMALLER, STAINLESS STEEL BALL & STEM, BRONZE BODY, 600 PSI WOG RATED, FULL PORT; NIBCO OR WATTS.
B. CHECK VALVES: 2–1/2" AND SMALLER, STOCKHAM B509, BRONZE VALVE, SWING CHECK VALVE, CLASS 125.
C. HOSE BIBB: CHICAGO, WOODLAND MODEL 24 OR EQUAL WITH VACUUM BREAKER AND TAMPER PROOF WITH LOOSE KEY.
D. TRAP PRIMER: PRECISION PRODUCTS CO. P–1 OR P–2.

PART 3 – EXECUTION

3.01 INSTALLATION
A. GENERAL
1. INSTALL PIPING AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION PROCEDURES, APPLICABLE CODES AND STANDARDS, AND AS SPECIFIED.
2. COORDINATE PIPING INSTALLATION WITH OTHER WORK TO AVOID INTERFERENCE. COORDINATE AS NECESSARY TO ENSURE THAT ALL HANGERS, SUPPORTS, SLEEVES, AND OTHER BUILT–IN DEVICES AND INCORPORATED IN FORMS OR MASONRY TO AVOID NECESSITY OF CUTTING FINISHED STRUCTURE.
3. ALL MEASUREMENTS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BASED ON ESTABLISHED LINES AND LEVELS. VERIFY ALL MEASUREMENTS AT SITE AND CHECK THE CORRECTNESS OF SAME AS RELATED TO THE WORK.
4. PROVIDE VALVES AT ALL EQUIPMENT SO THAT IT CAN BE EASILY REMOVED.
5. ALL BRANCH PIPING SHALL HAVE ACCESSIBLE SERVICE VALVES PROVIDE ACCESS PANELS AS REQUIRED.
B. PIPING
6. INSTALL PIPING AS SHOWN ON THE DRAWINGS AND STRAIGHT AND DIRECT AS POSSIBLE, FORMING RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS, NEATLY SPACED WITH RISERS PLUMB AND TRUE. NO COMPRESSION FITTINGS SHALL BE ALLOWED.
7. PIPING SHALL PITCH BACK TOWARD SYSTEM DRAIN VALVE AND ANY INSTALLED LOW POINTS OR POCKETS SHALL HAVE A HOSE AND DRAIN VALVE.
8. ERECT ALL PIPING TO OBTAIN SUFFICIENT FLEXIBILITY TO PREVENT EXCESSIVE BENDING MOMENTS AT JOINTS OR CONNECTIONS.
9. ARRANGE WATER PIPING SO THAT SYSTEM CAN BE COMPLETELY DRAINED. WHERE LINES ARE PURPOSELY PITCHED FOR DRAINAGE, A UNIFORM GRADE SHALL BE MAINTAINED. LINES SHALL BE SUPPORTED AS TO PREVENT POCKETING OF WATER,. NO LINES SHALL HAVE POCKETS DUE TO CHANGES IN ELEVATION UNLESS PROPER PROVISIONS FOR DRAINAGE ARE MADE.
10. INSTALLED PIPING SHALL NOT INTERFERE WITH THE OPERATION OR ACCESSIBILITY OF DOORS AND WINDOWS, SHALL NOT ENCROACH ON AISLES, PASSAGEWAYS AND EQUIPMENT, AND SHALL NOT INTERFERE WITH THE SERVICING OR MAINTENANCE OF ANY EQUIPMENT. ADJACENT PIPELINES SHALL BE GROUPED IN THE SAME HORIZONTAL OR VERTICAL PLANE.
11. INSTALL INSULATING UNIONS IN WATER PIPING BETWEEN COPPER PIPING AND FERROUS PIPING.
12. INSTALL UNIONS ADJACENT TO VALVES AND WHERE NECESSARY TO FACILITATE DISASSEMBLY OF PIPING.
13. SUPPORT PIPING INDEPENDENTLY OF EQUIPMENT TO WHICH IT IS CONNECTED.

3.02 HYDROSTATIC TEST
A. STORM AND SANITARY DRAINAGE AND VENTS:
1. TIGHTLY CLOSE ALL OPENINGS IN THE ENTIRE SYSTEM AND FILL IT WITH WATER TO THE POINT OF OVERFLOWING ABOVE THE ROOF. THE WATER LEVEL SHALL BE MAINTAINED FOR 24 HOURS.
2. WHEN PIPING IS TESTED IN SECTIONS, TEST PIPING WITH A PRESSURE EQUIVALENT TO A 10' WATER HEAD. THE WATER LEVEL SHALL BE MAINTAINED FOR 24 HOURS.
3. FOR PIPING ADDED, RELOCATED OR REPLACED ON EXISTING SYSTEM, INSTALL A TEST TEE AT THE LOWEST ELEVATION OF EACH ADDED, RELOCATED OR REPLACED PIECE OF PIPE AND FILL IT WITH WATER TO THE OVERFLOW LEVEL OF THE NEXT HIGHEST FIXTURE OUTLET OR DRAIN. THE WATER LEVEL SHALL BE MAINTAINED FOR 24 HOURS.
B. DOMESTIC WATER
4. CAP OR PLUG ALL OUTLETS, APPLY A HYDROSTATIC PRESSURE OF 150 PSI AND SUSTAIN SUCH PRESSURE FOR 24 HOURS.
5. FOR PIPING ADDED, RELOCATED OR REPLACED ON EXISTING SYSTEMS, APPLY A HYDROSTATIC PRESSURE OF 50 PSI ABOVE THE EXISTING PRESSURE FOR 24 HOURS.

END OF SECTION 221116

zebra
ARC
ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA
EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730–2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com
State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
2	11/22/21	BID
3	01/13/22	REVISION 1

STATUS:
PERMIT

Registered Professional Engineer (Mechanical)
CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.
Expires:9/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:22:40-06'00'

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
SPECIFICATIONS-MECHANICAL

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
M-902

DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING

SECTION 233410 AIR DISTRIBUTION EQUIPMENT

PART 1 – GENERAL
1.01 GENERAL REQUIREMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONIS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

1.02 COMPLIANCE

A. AMCA COMPLIANCE – TEST AND RATE AIR DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH AMCA STANDARDS, AND PROVIDE AMCA CERTIFIED RATINGS SEAL.
B. UL COMPLIANCE: PROVIDE ELECTRICAL COMPONENTS OF AIR DISTRIBUTION EQUIPMENT WHICH HAVE BEEN LISTED AND LABELED BY UL.

1.03 SUBMITTALS

A. SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA ASSEMBLY– TYPE SHOP DRAWINGS, LADDER–TYPE WIRING DIAGRAMS DIFFERENTIATING BETWEEN PORTIONS OF WIRING THAT ARE FACTORY INSTALLED AND PORTIONS TO BE FILED–INSTALLED, AND MAINTENANCE DATA.

PART 2 – PRODUCTS
2.01 HVAC SYSTEMS

A. PROVIDE EQUIPMENT AS SCHEDULED WITH ALL OPTIONS AS DESCRIBED ON THE MECHANICAL DRAWINGS
B. WHEREVER POSSIBLE, PROVIDE BELT DRIVEN EQUIPMENT AS SHCEDULED OR PROVIDED BY THE MANUFACTURER WITH ALL OPTIONS INCLUDED IN THE SCHEDULES OR REQUIRED TO MEET THE PERFORMANCES NOTED ON THE MECHANICAL DRAWINGS.

PART 3 – EXECUTION
3.01 INSTALLATION

A. UNITS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND DETAILS ON DRAWINGS.
B. ALL EXHAUST FAN SYSTEMS TO HAVE BACKDRAFT OR MOTORIZED DAMPERS IN THE SYSTEM.
C. PROVIDE FLEXIBLE DUCT CONNECTIONS TO ALL FANS.
D. PROVIDE ROOF CURBS FOR ALL ROOF HOODS, ROOF MOUNTED EQUIPMENT AND DUCT PENETRATIONS THRU ROOF.
E. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT.

END OF SECTION 233410

SECTION 233113 DUCTWORK

PART 1 – GENERAL
1.01 DESCRIPTION

A. GENERAL REQUIREMENTS: DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDEING GENERAL CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

1.02 WORK INCLUDED

A. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT TRANSPORTATION AND SERVICES TO FURNISH AND INSTALL COMPLETE ALL DUCTWORK AND RELATED SYSTEMS SPECIFIED HEREIN AND INDICATED ON THE DRAWING.

PART 2 – PRODUCTS
2.01 SHEETMETAL WORK

A. FURNISH ALL DUCTWORK AS SHOWN ON PLANS. ALL DUCTWORK CONSTRUCTION SHALL COMPLY WITH SMACNA STANDARDS AND LOCAL MECHANICAL CODE STANDARDS, WHICHEVER IS MORE STRINGENT. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING PRESSURE VELOCITY CLASSIFICATIONS FOUND IN SMACNA HVAC DUCT CONSTRUCTION ~~STANDARDS, THIRD EDITION (2006).~~
1. ~~DUCTWORK BETWEEN VAV AIR HANDLING UNITS AND TERMINAL BOXES: MAXIMUM +6" W.G. 4,000 G.P.M., VARIABLE AIR VOLUME.~~
2. ~~DUCTWORK DOWNSTREAM OF TREMINAL BOXES: +2" W.G., 2,500 F.P.M., VARIABLE AIR VOLUME.~~
3. EXHAUST DUCTWORK (ALL EXHAUST FAN SYSTEMS WHERE DESIGN FAN STATIC IS LISTED AT 1.0" W.G. OR ABOVE): +2" TO –2"W.G., 2,500 F.P.M., CONSTANT VOLUME.
4. RETURN, RELIEF OR EXHAUST DUCTWORK, WHERE FAN DESIGN STATIC IS LISTED BELOW 1.0"W.G.: +1" TO –1"W.G., 2,500 F.P.M. CONSTANT VOLUME.
5. SUPPLY DUCTS NOT LISTED ABOVE: +2" TO –2"W.G., 2,500 F.P.M., CONSTANT VOLUME.
6. TRANFER DUCTS: +0.5" TO –0.5"W.G., 2,500 F.P.M., CONSTANT VOLUME.

B. PRIOR TO ANY FABRICATING OF SHEET METAL WORK, THE MECHANICAL CONTRACTOR SHALL CAREFULLY MEASURE (AT THE SITE) AVAILABLE SPACE FOR SHEET METAL WORK. HE SHALL PREPARE LARGE SCALE SHOP DRAWINGS OF SHEET METAL WORK SHOWING ALL OTHER ELEMENTS OF THE BUILDING INCLUDING PIPING, STRUCTURAL AND ELECTRICAL SO ALL ARE COORDINATED AND FIT AVAILABLE SPACE. THE SHOP DRAWINGS WILL NOT GO THROUGH A FORMAL SUBMITTAL PROCESS, BUT 2 COPIES SHALL BE GIVEN TO THE ARCHITECT AS EVIDENCE OF THEIR BEING COMPLETED.

C. LONGITUDINAL SEAMS IN DUCTS SHALL BE FLAT, DOUBLE LOCK TYPE. S AND DRIVE TYPE.

D. TRANSVERSE SEAMS SHALL BE OF TYPE AND SPACING AS FOLLOWS:

MAX SIDE	TYPE	SPACING
UP TO 30"	DRIVE SLIP	7'–10"
31" TO 60"	1–1/2" POCKET SLIP	7'–10"
61" AND UP	1–1/2" POCKET SLIP	3'–9"

CROSS BREAK PANELS 18" AND OVER IN WIDTH.

E. STANDING SEAMS ARE NOT ACCEPTABLE ON ANY DUCTWORK.
F. JOINT LOCKING: THE SLIPJOINT IN POCKET SLIP SEAMS SHALL BE SCREWED USING NOT LESS THAT ONE SCREW PER FACE AND MAXIMUM SPACING OF 2'–0".
G. DAMPERS: PROVIDE DAMPERS AND QUADRANTS IN DUCTWORK AS NECESSARY FOR BALANCING. PROVIDE ONE DAMPER IN THE DUCT LEADING TO EACH SUPPLY AND RETURN/EXHAUST OPENING. DAMPERS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION. DAMPERS SHALL BE FITTED WITH PARKER KALON DAMPER BEARINGS AND PARKER KALON NO 195T QUADRANTS. DAMPERS SHALL BE OF 20 GA. G.I. SINGLE PLATE TYPE WITH EDGES HEMMED. FOR DAMPERS ABOVE "HARD" (GYPBOARD OR NON–ACCESSIBLE) CEILINGS, PROVIED BOWDEN CABLE CONTROLLER WITH CONCEALED OPERATORS IN NEARTEST RETURN GRILLE. SHOW LOCATION OF ALL REMOTE DAMPER OPERATORS & VOLUME DAMPERS ON RECORD DRAWINGS. INCLUDE DRAWING WITH BALANCING REPORT.
ADJUSTABLE SPLITTER DAMPERS TO BE YOUNG REGULATOR 890B.
H. ACCESS DOORS SHALL BE PROVIDED BY THIS CONTRACTOR IN FINISHED WALLS AND CEILINGS WHERE REQUIRED TO REACH MECHANICAL EQUIPMENT, MILCOR OR EQUAL.
I. INSULATED LOW PRESSURE FLEXIBLE DUCT SHALL BE A FACTORY FABRICATED ASSEMBLY CONSISTING OF A ZINC–COATED SPRING STEEL HELIX, NON PERFORATED INNER LINER, WRAPPED WITH A NOMINAL 1" THICK BY 1 LB/CU. FT DENSITY FIBERGLASS INSULATION. THE ASSEMBLY SHALL BE SHEATHED IN A VAPOR BARRIER JACKET, FACTORY SEALED AT BOTH ENDS OF EACH SECTION, THUS ASSURING THE VAPOR RESISTANCE OF EACH SECTION AS WELL AS THE COMPLETED INSTALLATION. THE COMPOSITE ASSEMBLY INCLUDING INSULATION AND VAPOR BARRIER SHALL MEET THE CLASS 1 REQUIREMENTS OF NFPA BULLETIN NO. 90–A AND BE LABELED BY UL WITH A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR UNDER. FLEXIBLE DUCTS SHALL BE INSTALLED IN A FULLY EXTENDED LENGTH REQUIRED TO MAKE THE CONNECTION. WHERE HORIZONTAL SUPPORT IS REQUIRED, FLEXIBLE DUCT SHALL BE SUPENDED ON A 26" CENTERS WITH A MINIMUM 3/4" WIDE FLAT BANDING MATERIAL. ALL JOINS AND CONNECTIONS SHALL BE MADE WITH 1/2" WIDE POSITIVE LOCKING STEEL STRAPS. INSULATED LOW PRESSURE FLEXIBLE DUCT SHALL BE GREENFLEX TYPE SL–1 OR EQUAL. PROVIDE CONICAL FITTINGS FOR CONNECTION TO TRUCK DU CT. MAXIMUM LENGTH OF FLEX DUCT IS 5 FEET WITH ONE 90 DEGREE BEND.
J. OFFSETS: PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO FIT DUCTWORK INTO AVAILABLE SPACE. MAINTAIN EQUIVALENT FREE AREA OF DUCTWORK, AND TRANSITION SHALL BE SMOOTH (LESS THAN 15 DEGREES).
K. EXPOSED DUCTWORK: ALL EXPOSED DUCTWORK SHALL BE GALVANNEALED.

2.02 DUCT LINING

A. JOHNS MANSVILLE 1" THICK 1.5 LB/CU.FT. DENSITY (WHERE CALLED OUT ON DRAWINGS AND WHERE SPECIFIED) LINACOUSTIC R–4 MIN. OR 1.5" THICK 1.5 LB/CU.FT. DENSITY LINACOUSTIC R–5 MIN. WHERE "SOUNDLINED" OR "LINED" DUCT IS CALLED OUT ON DRAWINGS OR SPECIFIED. SECURE WITH GLUE AND CLIPS. SPACE CLIPS A MAXIMUM OF 18"O.C. LINE ALL RETANGULAR DUCTS (INCLUDES SUPPLY, RETURN, EXHAUST AND TRANSFER DUCTS). THE NET FREE AREA OF THE DUCT DIMENSIONS GIVEN ON THE DRAWINGS SHALL BE MAINTAINED. INCREASE METAL DUCT DIMENSIOONS AS NECESSARY TO COMPENSATE FOR ADDITION OF THE LINER.
B. THE DUCT LINER SHALL BE APPLIED WITH 100% COVERAGE OF APPROVED FIRE RESISTANT ADHESIVE. LINER SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS ON MAXIMUM 15" CENTERS. FASTENERS SHALL START WITH 2" OF THE LEADING EDGE OF EACH SECTION AND WITHIN 3" OF THE LEADING EDGE OF ALL CROSS JOINTS WITHIN THE DUCT SECTION. ALL EXPOSED EDGES AND THE LEADING EDGE OF ALL CROSS JOINTS OF THE LINER SHALL BE HEAVILY COATED WITH AN APPROVED FIRE RESITANT ADHESIVE. THE DUCT LINER SHALL BE CUT TO ASSURE SNUG CLOSING CORNER JOINTS, THE BLACK SURFACE OF THE LINER SHALL FACE THE AIR STREAM, TRANSVERSE JOINTS SHALL BE NEATLY BUTTED, AND ANY DAMAGED AREAS SHALL BE HEAVILY COATED WITH AN APPROVED FIRE RESISTANT ADHESIVE.

2.03 BACKDRAFT DAMPERS

A. GENERAL: PROVIDE DAMPERS AT ALL OUTSIDE AIR AND RELIEF DUCTS INTAKING FROM OR EXHAUSTING TO ATMOSPHERE.
B. TYPE:
1. BACKDRAFT DAMPERS ON FAN SYSTEMS SHALL BE GALVANIZED STEEL OR ALUMINUM MULTIBLADE TYPE. BLADES SHALL HAVE FELT STRIPS RIVETED OR CRIMPED IN PLACE. BLADES SHALL BE JOINED TOGETHER WITH CONNECTION BARS. EACH BLADE SHALL BE RIGIDLY ATTACHED TO A PIVOT ROD. THE ROD SHALL EXTEND INTO OIL–IMPREGNATED BROZE BUSHINGS, OR ANTIFRICTION BEARINGS, LOCATED IN THE FRAMES.
RUSKIN CBD2 OR EQUAL.
2. FABRIC BACKDRAFT DAMPERS ON RELIEF DUCTS SHALL BE CONSTRUCTED TO INDUSTRY STANDARDS.

2.04 LOUVERS

A. FURNISH WONDER METAL MODEL "SDL–4" DRAINABLE FORMED GALVANIZED STEEL STORM–PROOF MULLION NON–MECHANICAL FIXED WALL LOUVERS, OR AIR LOUVERS INC., THE AIROLITE CO., CONSTRUCTION SPEACIALTIES INC., RUSKIN, OR INDUSTRIAL LOUVERS INC. EQUIVALENT, OR APPROVED SIZES AND CONFIGURATIONS AS SHOWN COMPLETE WITH FLAT BAR ORNAMENTAL SHAPES WERE SHOWN; REFER TO EXTERIOR BUILDING ELEVATIONS AND LOUVER SCHEDULE, SECTION 22 OF PROJECT MANUAL VOLUME II. PROVIDE WITH BIRD SCREEN AND COLOR AS DESIGNATED BY ARCHITECT.
B. LOUVERS SHALL HAVE BEEN TESTED AND RATED TO HAVE MINIMUM 45% FREE OPENING BASED ON A 4X4 FOOT SIZE LOUVER.
C. FRAME AND BLADES TO BE 16 GAUGE GALVANIZED STEEL.
D. HEAD, SILLS AND JAMBS TO BE ONE PIECE STRUCTURAL MEMBERS AS DETAILED AND SECURELY ANCHOR TO WALL CONSTRUCTION AS APPROVED.
E. SLIDEABLE INTERLOCKED MULLIONS TO HAVE PROVISION TO EXPANSION AND CONTRACTION.
F. FURNISH COMPLETE WITH MANUFACTURER'S STANDARD BIRD SCREEN MOUNTED IN FOLDED "U" TYPE FRAME AND ATTACH TO INSIDE FACE OF LOUVER FRAME WITH STEEL SCREWS AT ACTIVE (OPEN) PORTIONS OF LOUVERS AND WITH 20 GAUGE GALVANIZED STEEL FACED INSULATED "BLANK–OFF" PANELS AT INACTIVE LOUVERS AREAS, COMPLETE WITH PERIMETER GASKET AND FINISHED TO MATCH LOUVER. INSULATION CORE SHALL BE 1 INCH THICK EXTRUDED POLYSTRYENE HAVING A MINIMUM THERMAL RESISTANCE "R" VALUE OF 5.0
G. ALL LOUVERS TO BE FREE OF SCRATCHES AND BLEMISHES AND SHALL BE FINISH PAINTED WITH BAKED–ON ENAMEL POWDER COATING.

2.05 FIRE DAMPERS

A. DYNAMIC FIRE DAMPERS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH UL 555. EACH DAMPER SHALL HAVE A 1 1/2 HOUR RATING WITH 165 DEG. F FUSABLE LINK AND BE LABLED PER UL 555.
B. DYNAMIC COMBINATION FIRE/SMOKE DAMPERS, RUSKIN FSD26, SHALL BE CONSTRUCTED OF MIN. 16 GAUGE GALVANIZED STEEL WITH STAINLESS STEEL BEARINGS, JAMB SEALS AND 450 DEG. F RATED BLADE EDGE SEAL. DAMPERS SHALL BE 1 HR. RATED UNDER UL 555 AND UL 555S. ALL DAMPERS USED UNDER THIS SPECIFICATION MUST BE UL TESTED & QUALIFIED IN THE COMPLETE RANGE OF SIZES USED. A SINGLE DAMPER TESTED WITHIN THIS RANGE IS NOT ACCEPTABLE. LEAKAGE RATING SHALL BE CLASS 11. INCLUDE A UL CLASSIFIED FIRE STAT. FIRESTAT SHALL ELECTRICALLY AND MECHANICALLY LOCK DAMPER CLOSED WHEN DUCT TEMPERATURE EXCEEDS 165 DEG. F. DAMPER MUST BE OPERABLE ABOVE 250 DEG. F. FIRSTAT SHALL BE EQUIPPED WITH TWO DAMPER POSITION INDICATORS FOR REMOTE INTERFACING WITH SMOKE DETECTORS & FIRE ALARM SYSTEM. ALSO PROVIDE INTEGRAL FLOW RATED DUCT SMOKE DETECTORS FOR DUCTED FIRE/SMOKE DAMPERS AND NO–FLOW DUCT SMOKE DETECTORS FOR NON–DUCTED FIRE SMOKE DETECTORS.
C. CEILING FIRE DAMPERS SHALL BE INSTALLED IN ALL CEILING REGISTERS AND GRILLES IN THE RATED CEILING. FIRE DAMPERS CONSIST OF A RADIANT DAMPER IN THE DIFFUSER NECK AND THERMAL INSULATING BLANKET COVERING THE DIFFUSER PAN. THE ENTIRE SYSTEM SHALL BE UL RATED FOR FLOOR/CEILING AND ROOF/CEILING SYSTEM.

PART 3 – EXECUTION
3.01 SHEET METAL WORK

A. PARTITIONS FORMING PLENUMS OR CASINGS SHALL BE #18 GA., WITH GALVANIZED IRON ANGLES AND RIVETS FOR SEAM CONNECTION AND STIFFENING ALL JOINTS AND STANDING SEAMS SHALL BE SEALED WITH APPROVED DUCT SEALANT.
B. CORK GASKETS HALL BE INSTALLED BETWEEN ALL CONNECTIONS OF SHEET METAL TO COIL AND FILTER CASINGS.
C. SHEET METAL CONNECTIONS OF PLENUMS AND AIR CHAMBERS TO WALL AND FLOORS SHALL BE MADE WITH GALVANIZED ANGLES ANCHORED TO WALL OR FLOOR CONSTRUCTION WITH ANCHOR BOLTS WITH SHEET METAL BOLTED OR RIVETED TO ANGLES. MASTIC SEALER SHALL BE INSTALLED AT CONNECTION OF ANGLES TO SHEET METAL TO PROVIDE AIR–TIGHT JOINTS. PROVIDE ACCESS DOORS IN PLENUMS AND CHAMBERS WITH HANDLES OPERATED FROM BOTH SIDES, VENTLOCK NO. 205 OR APPROVED SUBSITUTE.
D. HINGED ACCESS DOORS IN SHEET METAL DUCT FOR ACCESS TO DAMPERS SHALL BE #18 GA. FRAMED WITH STEEL ANGLE AND HEMMED EDGES.
E. CONNECT ALL GRILLES TO DUCTWORK. PAINT THE INSIDE OF THE DUCT A DULL BLACK AT ALL GRILLES.
F. ALL AIR INLETS AND OUTLETS TO OUTSIDE SHALL HAVE BIRDSCREENS. BACKDRAFT DAMPER SHALL BE PROVIDED WHERE MOTORIZED DAMPER IS NOT INDICATED.
G. ALL DUCTS THROUGH ROOF SHALL BE FLASHED WATER–TIGHT. SEE DETAIL. ALL DUCTS THRU WALLS AND FLOORS/ROOFS SHALL HAVE ANGLE ENCLOUSRES.
H. CONNECTIONS OF ALL DUCTS TO ALL EQUIPMENT SHALL BE MADE WITH NEOPRENE.
I. ELBOWS SHALL HAVE AN INSIDE RADIUS EQUAL TO 1/2 THE DUCT WIDTH. RECTANGULAR ELBOWS SHALL HAVE DUCT TURNS, T&B OR APPROVED EQUAL WHERE SHOWN ON DRWINGS. SQUARE INSIDE ELBOW AND ROUND OUTSIDE ELBOW ARE NOT PERMITTED. DO NOT INSTALL TURNING VANES IN GREASE EXHAUST DUCTWORK.
J. SUPPORTERS SHALL BE GALVANIZED STRAP OR ANGLE IRON HANGERS, ARRANGED TO PREVENT ANY BULGING BENDING OR SAGGING OF DUCTWORK. UNDER NO CONDITION SHALL HANGERS PIERCE THE DUCTS. VERTICAL DUCTS SHALL BE SUPPORTED AT EACH FLOOR WITH 18 GA. FORMED ANGLE.
K. SEAL ALL DUCT JOINTS WITH APPROVED DUCT SEALANT.
L. HANGERS:
1. PROVIDE HANGERS ON ALL DUCTWORK
2. HANGERS FOR CIRCULAR DUCTS AND TUBING: A #18 GAUGE GALVANIZED SHEET STEEL STRAP SHALL BE WRAPPED AROUND THE DUCT AT EACH POINT OF SUPPORT. FOR CONCEALED WORK THIS STRAP SHALL BE BOLTED TO A STRAP HANGER OF SIMILAR GAUGE AND WIDTH, FOR EXPOSED WORK IN SALES AREA, HANGERS SHALL BE AIRCRAFT CABLE, FOR EXPOSED WORK IN BACK OF HOUSE, BOLTED TO A STEEL ROD HANGER IN EACH CASE, ROD HANGER 1/4" SIZE FOR DUCTS UP TO 10" SIZE, 3/8" SIZE FOR LARGER DUCTS. WIDTH OF GALVANIZED STEEL STRAP WRAPPED AROUND THE DUCT SHALL NOT BE LESS THAN 1" IN ANY CASE; WHERE DUCTS ARE IN EXCESS OF 10" IN DIAMETER SHALL BE 2".
3. SPACING OF HANGERS SHALL NOT EXCEED 10'–0" ON CENTERS IN ANY CASE; WHERE DUCTS ARE INSULATED AND ARE IN EXCESS OF 10" IN SIZE, SPACING SHALL NOT EXCEED 8'–0".
M. A MAXIMUM OF 5 FEET LENGTH OF FLEX DUCT WITH ONE 90 DEGREE BEND WILL BE ALLOWED AT CONNECTIONS TO DIFFUSERS, WHERE FLEX DUCT IS SHOWN ON DRAWINGS.
N. PROVIDE FIRE STOP AROUND DUCTWORK AT ALL DUCT PENETRATIONS OF RATED CONSTRUCTION. "FIRE STOP SEALANT" BY DOW CORNING.
O. BACKDRAFT DAMPERS ON RELIEF DUCTS SHALL BE METAL BLADE TYPE.
P. PROVIDE DUCT TRANSITIONS AS REQUIRED TO SOUND TRAPS AND ALL EQUIPMENT CONNECTIONS.
Q. PROVIDE DUCT LINING ON RECTANGULAR DUCTS WHERE INDICATED ON DRAWINGS (SUPPLY, RETURN, EXHAUST AND TRANSFER AIR DUCTS). THE NET FREE AREA OF DUCT DIMENSION GIVEN ON THE DRAWINGS SHALL BE MAINTAINED. INCREASE METAL DUCT DIMENSIONS AS NECESSARY TO COMPENSATE FOR ADDITION OF THE LINER.
R. ALL DUCTWORK, INCLUDING, BUT NOT LIMITED TO DUCT HANGERS, BRACKETS, FITTINGS, AND JOINTS, SHALL BE INSTALLED IN A MANNER WHICH NEITHER REDUCES HEADROOM AND WALKWAY WIDTH NOR PROJECTS ANY SHARP EDGES INTO A CATWALK OR PASSAGE AREA. ANY DUCTWORK WHICH, IN THE OPINION OF THE ARCHITECT, PRESENTS A POSSIBLE HAZARD TO PEOPLE IN THE CATWALK AREA, SHALL BE CHANGED TO AN ACCEPTABLE AND SAFE MANNER. SUCH CHANGES MAY INCLUDE: MOVING THE EQUIPMENT, CHANGING THE CONFIGURATION, AND/OR ADDING PROTECTIVE PADDING TO THE EQUIPMENT.
S. INTAKE MOTOR OPERATED DAMPERS SHALL BE INSTALLED AT THE ENVELOPE OF THE BUILDING.
T. INSTALL FIRE DAMPERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE MIN. 12X12 ACCESS PANEL IN DUCT AND LABEL "FIRE DAMPER ACCESS" WITH MIN. 1/2" HIGH LETTERS.

SECTION 233713 OUTLETS AND INLETS

PART 1 – GENERAL
1.01 DESCRIPTION

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

1.02 COMPLIANCES

A. ADC COMPLIANCE: TEST AND RATE REGISTERS, GRILLES AND DIFFUSERS IN ACCORDANCE WITH ADC EQUIPMENT TEST CODE 1062R4, PROVIDE CERTIFIED RATINGS SEAL ON EACH UNIT.
B. AMCA COMPLIANCE: TEST AND RATE LOUVERS, DAMPERS, AND SHUTTERS IN ACCORDANCE WITH AMCA STANDAD 500, PROVIDE CERTIFIED RATINGS SEAL ON EACH UNIT.

1.03 SUBMITTALS

A. SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA UNLESS AS SPECIFIED ON DRAWINGS, ASSEMBLY–TYPE SHOP DRAWINGS, AND MAINTENANCE DATA.

PART 2 – PRODUCTS
2.01 CEILING AIR DIFFUSERS

A. GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE MANUFACTURER'S STANDARD CEILING AIR DIFFUSERS WITH FIRE DAMPERS; OF SIZE, SHAPE, CAPACITY AND TYPE INDICATED; CONSTRUCTED OF MATERIALS AND COMPONENTS INDICATED AND AS INDICATED ON DRAWINGS FOR COMPLETE INSTALLATION.
B. CEILING COMPATIBILITY: PROVIDE DIFFUSERS WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT CEILING SYSTEMS, AND THAT ARE SPECIFICALLY MANUFACTURED TO FIT INTO CEILING MODULE WITH ACCURATE FIT AND ADEQUATE SUPPORT. REFER TO GENERAL CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR TYPES OF CEILING SYSTEMS WHICH WILL CONTAIN EACH TYPE OF CEILING AIR DIFFUSERS.
C. TYPES: PROVIDE TITUS CEILING DIFFUSERS OF TYPE, CAPACITY, AND WITH ACCESSORIES AND FINISHES AS SCHEDULED.

2.02 REGISTERS AND GRILLES

A. GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE MANUFACTURER'S STANDARD WALL REGISTERS AND GRILLES WITH FIRE DAMPERS; OF SIZE, SHAPE, CAPACITY AND TYPE INDICATED; CONSTRUCTED OF MATERIALS AND COMPONENTS AS INDICATED ON DRAWINGS, AND AS REQUIRED FOR COMPLETE INSTALLATION.
B. PERFORMANCE: PROVIDE WALL REGISTERS AND GRILLES THAT HAVE, AS MINIMUM, TEMPERATURE AND VELOCITY TRAVERSES, THROW AND DROP, AND NOISE CRITERIA RATINGS FOR EACH SIZE DEVICE AS LISTED IN MANUFACTURER'S CURRENT DATA.
C. COMPATIBILITY: PROVIDE REGISTERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALL OR CEILING SYSTEMS, AND THAT ARE SPECIFICALLY MANUFACTURED TO FIT INTO CONSTRUCTION WITH ACCURATE AND SPECIFICATIONS FOR TYPES OF CONSTRUCTION WHICH WILL CONTAIN EACH TYPE OF WALL REGISTER AND GRILLE.
D. TYPES: PROVIDE WALL REGISTERS AND GRILLES OF TYPE, CAPACITY, AND WITH ACCESSORIES AND FINISHES AS SCHEDULED.
E. MANUFACTURERS: TITUS

PART 3 – EXECUTION
3.01 INSTALLATION

A. GENERAL: INSTALL OUTLETS AND INLETS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECONGNIZED INDUSTRY PRACTICES TO INSURE THAT PRODUCTS SERVE INTENDED FUNCTIONS. REFER TO INSTALLATION DETAILS, REFERENCED IN PARAGRAPH 2.03A ABOVE.
B. COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK AND DUCT ACCESSORIES, AS NECESSARY TO INTERFACE INSTALLATION OF OUTLETS AND INLETS WITH OTHER WORK.
C. LOCATE CEILING AIR DIFFUSERS, REGISTERS, AND GRILLES, AS INDICATED ON GENERAL CONSTRUCTION "RELECTED CEILING PLANS" AND INTERIOR ELEVATIONS". UNLESS OTHERWISE INDICATED, LOCATE UNITS IN CENTER OF ACOUSTICAL CEILING MODULES.

END OF SECTION 233713

SECTION 234100 FILTERS

PART 1.00 – GENERAL
1.01 GENERAL REQUIREMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND OTHER CONDITIONS AND DIVISION 01 – GENERAL REQUIREMENTS SECTIONS, APPLY TO THE WORK SPECIFIED IN THIS SECTION.

1.02 COMPLIANCE

A. NFPA COMPLIANCE: INSTALL AIR TREATMENT EQUIPMENT IN ACCORDANCE WITH NFPA 90A AND 90B.
B. UL COMPLIANCE: PROVIDE AIR FILTER UNTS WHICH HAVE BEEN LISTED AND LABELED BY UL.
C. ASHRAE COMPLIANCE: TEST AIR FILTER UNITS IN ACCORDANCE WITH ARI 850.

PART 2 – PRODUCTS
2.01 AIR FILTERS

A. EXTENDED SURFACE FILTERS: PROVIDE FACTORY–FABRICATED, DRY, EXTENDED SURFACE FILTERS; WHERE SHOWN, IN SIZES INDICATED. EQUIP WITH UL CLASS 2 FIBROUS MEDIA MATERIAL FORMED INTO 2" DEEP V–SHAPED PLEATS AND HELD BY SELF–SUPPORTING FRAMES. FARR 30/30 OR EQUAL.

2.02 FILTER FRAMES

A. PROVIDE METAL FILTER FRAMES AS DETAILED ON DRAWINGS.

PART 3 – EXECUTION
3.01 INSTALLATION

A. INSTALL AIR FILTERS AND HOLDING DEVICES OF TYPES INDICATED, AND WHERE SHOWN; IN ACCORDANCE WITH AIR FILTER MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES; TO ENSURE THAT FILTERS COMPLY WITH REQUIREMENTS AND SERVE INTENDED PURPOSES. COMPLY WITH APPLICABLE PORTIONS OF NFPA 70, 90A AND B, PERTAINING TO INSTALLATION OF AIR FILTERS. PROVIDE AS SCHEDULED ON THE DRAWINGS.
B. INSTALL FILTERS IN PROPER POSITION TO PREVENT PASSAGE OF UNFILTERED AIR.
C. PROVIDE CLEAN SET OF FILTERS FOR ALL PIECES OF EQUIPMENT:
1. IMMEDIATELY PRIOR TO AIR BALANCING.
2. WHEN FINAL PUNCHLIST IS DONE.
3. IN ADDITION, FURNISH ONE COMPLETE EXTRA SET OF FILTERS TO OWNER WHEN FINAL PUNCHLIST IS DONE. THREE SETS OF FILTERS ARE REQUIRED (TWO INSTALLED, ONE TURNED OVER TO OWNER). LOCATE EXTRA SET IN MECHANICAL ROOMS WHERE FILTERS ARE LOCATED.
D. FILTERS SHALL BE EASILY CHANGED FROM FRAMES AND SHALL SLIDE FREELY ON TRACKS WITHOUT BINDING. MAINTAIN CLEAR ACCESS IN FRONT OF FILTER ACCESS DOOR TO FULL WIDTH OF THE FILTER.
E. FILTER SECTIONS SHALL HAVE HINGED ACCESS DOORS WITH LATCHES.

END OF SECTION 234100

SECTION 230900 CONTROLS

1. IN ADDITION TO THERMOSTATS AND PNEUMATIC TUBING, PROVIDE ALL CONTROLS, WIRING, CONDUIT, RELAYS, ETC. TO PROVIDE COMPLETE AND OPERATIONAL CONTROL SYSTEMS. PROVIDE CONNECTION TO LANDLORD BUILDING CONTROL SYSTEM PER LANDLORD TENANT CRITERIA. COORDINATE CAREFULLY WITH LANDLORD CONTROLS SUB–CONTRACTOR.
2. SET HVAC EQUIPMENT THERMOSTATS FOR 73 D.F. COOLING AND 70 D.F. HEATING INITIALLY.

END OF SECTION 230900

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road. Suite 100
Austin, Texas 78730–2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com

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Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
1	11/11/21	PERMIT
2	11/22/21	BID
3	01/13/22	REVISION 1

STATUS:
PERMIT

Registered Professional Engineer (Mechanical)
CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.
Expires: 9/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:20:38-06'00'

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SHEET NAME:
SPECIFICATIONS-MECHANICAL

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
M-903

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TRAP PIMER	1% SLOPE	DIRECTION OF SLOPE
	BALL VALVE		DIRECTION OF FLOW
	BUTTERFLY VALVE		PIPE UP OR UP & DN
	GATE VALVE		PIPE DOWN
	BALANCING VALVE		PIPE DROP
	CHECK VALVE		TOP CONNECTION – BRANCH LINE
	PRESSURE REDUCING VALVE		BOTTOM CONNECTION – BRANCH LINE
	AUTOMATIC AIR VENT	F	FIRE MAIN
	CIRCUIT SETTER	AS	AUTOMATIC WET SPRINKLER
	BACKWATER VALVE		COLD WATER
	UNION		HOT WATER (120°F)
	STRAINER		HOT WATER CIRC (110°F)
	STRAINER WITH BLOW OFF	140	HOT WATER (140°F)
	FLEXIBLE CONNECTOR	122	HOT WATER CIRC (122°F)
	CAP OR PLUG	SAN	SANITARY SEWER, WASTE OR SOIL BELOW GRADE OR FLOOR
	BLIND FLANGE	SD	STORM DRAIN
	CONCENTRIC REDUCER		PIPING BELOW GRADE
	ECCENTRIC REDUCER		WASTE, OR SOIL ABOVE GRADE OR FLOOR
A1, A2, A3	WATER HAMMER ARRESTOR		VENT
PG	PRESSURE GAUGE WITH COCK	D	DRAIN LINE
T	THERMOMETER	(E)	EXISTING PIPE
CO/WCO	CLEANOUT/WALL CLEANOUT	W	WASTE STACK
FCO	FLOOR CLEANOUT	V	VENT STACKS
YCO	YARD CLEANOUT	CW	COLD WATER RISER
HB	HOSE BIBB	PD	PLANTER DRAIN
FD	FLOOR DRAIN		PLUMBING EQUIPMENT
WSTG	METER TAG	#	SHEET NOTE
		1 / P2	DETAIL NO. / SHEET NO.
		M	WATER FLOW METER
			POINT OF CONNECTION
		#	POUNDS OR NUMBER

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT
ASR	AUTO FIRE SPRINKLER RISER
BEL	BELOW
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFF	CAP FOR FUTURE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONTR	CONTRACTOR
CONT	CONTINUATION
CS	CIRCUIT SETTER
CV	CHECK VALVE
CW	COLD WATER
CW(FU)	COLD WATER FIXTURE UNIT
DN	DOWN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DFU	DRAINAGE FIXTURE UNIT
HWR	HOT WATER RECIRC
DIA	DIAMETER
D	DRAIN
DWG	DRAWING
DWV	DRAINAGE WASTE AND VENT
EXIST	EXISTING
ELEC	ELECTRICAL
FIN	FINISHED
FLR	FLOOR
FLSW	FLOW SWITCH
FO	FUEL OIL
FPS	FEET PER SECOND
FRM	FROM
FT	FEET
FT	FLUSH TANK
(FU)	FIXTURE UNIT
FUT	FUTURE
FV	FLUSH VALVE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HD	HUB DRAIN
HP	HORSEPOWER
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
I.E.	INVERT ELEVATION
I.R.R.	IRRIGATION
LAV	LAVATORY
LBS	POUNDS (UNIT OF FORCE)
LP	LUBRICATED PLUG VALVE
MAX	MAXIMUM
MBH	THOUSANDS BTU/HR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
N.C.	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.	NUMBER
N.O.	NORMALLY OPEN
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OW	OIL WASTE
POC	POINT OF CONNECTION
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TEMPERATURE TRAP (PETE'S PLUG)
PV	PROCESS VENT
PV	PLUG VALVE
RI&C	ROUGH IN AND CONNECT
RPBFP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
SF	SQUARE FEET
SHT	SHEET
SN	SHEET NOTE
SOV	SHUT–OFF VALVE
SPR	SPRINKLER
S.S.	STAINLESS STEEL
SV	SOLENOID VALVE
TP	TRAP PRIMER
TT	TEST TEE
TYP	TYPICAL
U	URINAL
UN	UNION
VB	VACUUM BREAKER
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WCO	WALL CLEANOUT
W/	WITH
WGT	WEIGHT
Y.B.	YARD BOX

GENERAL NOTES - PLUMBING

1. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH DIVISION 22 SPECIFICATIONS.
2. AS–BUILT RECORD DOCUMENTS: AT PROJECT CLOSEOUT, CONTRACTOR SHALL SUBMIT DETAILED INSTALLATION DRAWINGS, CHANGE ORDERS AND SPECIFICATION CHANGES TO ARCHITECT FOR APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
3. DETAILED INVESTIGATION OF EXISTING CONDITIONS ARE PART OF THE CONTRACT WORK. VISIT THE JOB SITE PRIOR TO BID. REVIEW AVAILABLE EQUIPMENT LAYOUTS, ASSEMBLY DRAWINGS AND INSTALLATION SCHEDULES.
4. DOMESTIC WATER HAS BEEN ENGINEERED. CONTRACTOR SHALL NOT USE APPENDIX "A" OF UPC TO RESIZE ANY LINES. RESIZING OF ANY LINES SHALL BE SUBMITTED FOR WRITTEN APPROVAL BY ENGINEER ONLY PRIOR TO COMMENCING OF ANY CONSTRUCTION.
5. BARRIER FREE REQUIREMENTS: PROVISIONS HAVE BEEN DESIGNED TO PROVIDE FIXTURES IN ACCORDANCE WITH A.D.A., ANSI AND LOCAL JURISDICTION REGULATIONS. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND REPORT TO ARCHITECT OR OWNER'S REPRESENTATIVE WHEN FIELD CONDITIONS PREVENT CORRECT INSTALLATION.
6. ALL PIPES, AND RELATED EQUIPMENT SHALL BE SUPPORTED AND BRACED PER THE 1991 SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEM" OR R–003 THE "SUPERSTRUT SEISMIC RESTRAINT SYSTEM" OR R–0114 THE "B–LINE SEISMIC RESTRAINT SYSTEM" FOR PIPES AND CONDUITS ONLY. SUPPORT SPACING SHALL CONFORM WITH UNIFORM PLUMBING CODE.
7. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE–STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED BY FIRE MARSHAL STANDARDS.
8. ROUTING OF PLUMBING PIPING SYSTEMS AND MECHANICAL PIPING SYSTEMS SHALL BE COORDINATED. PROVIDE COMMON SUPPORTS WHERE POSSIBLE.
9. MAKE ALL ROUGH–INS AND FINAL CONNECTIONS IN CONFORMANCE WITH LOCAL CODES, PROVIDE SHUT–OFF VALVES WITH PERMANENT NAME TAGS IDENTIFYING SUPPLY LINES TO EACH INDIVIDUAL PIECE OF EQUIPMENT. INCLUDE TRAPS, TAIL PIECES, AND LINE STRAINERS AS REQUIRED.
10. PROVIDE AND INSTALL ALL SINK WASTE LINES, USE COPPER TUBING UNEXPOSED & PAINT WHERE LINES ARE VISIBLE.
11. UNDER PLUMBING WORK OF DIVISION 22, INSTALL & CONNECT FAUCETS.
12. PROVIDE AND INSTALL STAINLESS STEEL OR CHROME PLATED ESCUTCHEON PLATES FOR ALL WATER LINES PENETRATING WALLS BELOW COUNTERS.

PLUMBING DRAWING LIST

P-001	INFORMATION AND DRAWING LIST - PLUMBING
P-100	1ST FLR - PLUMBING DEMO PLAN
P-101	2ND FLR - PLUMBING DEMO PLAN
P-110	1ST FLR - PLUMBING PLAN
P-111	2ND FLR - PLUMBING PLAN

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
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512.744.4400 main 512.744.4444 fax
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EEA Project No. 20216523

STORE NO.:
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SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

△	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Registered Professional Engineer (Mechanical)
CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.

Expires:9/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:20:27-06'00'

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SHEET NAME:
INFORMATION AND DRAWING LIST PLUMBING

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

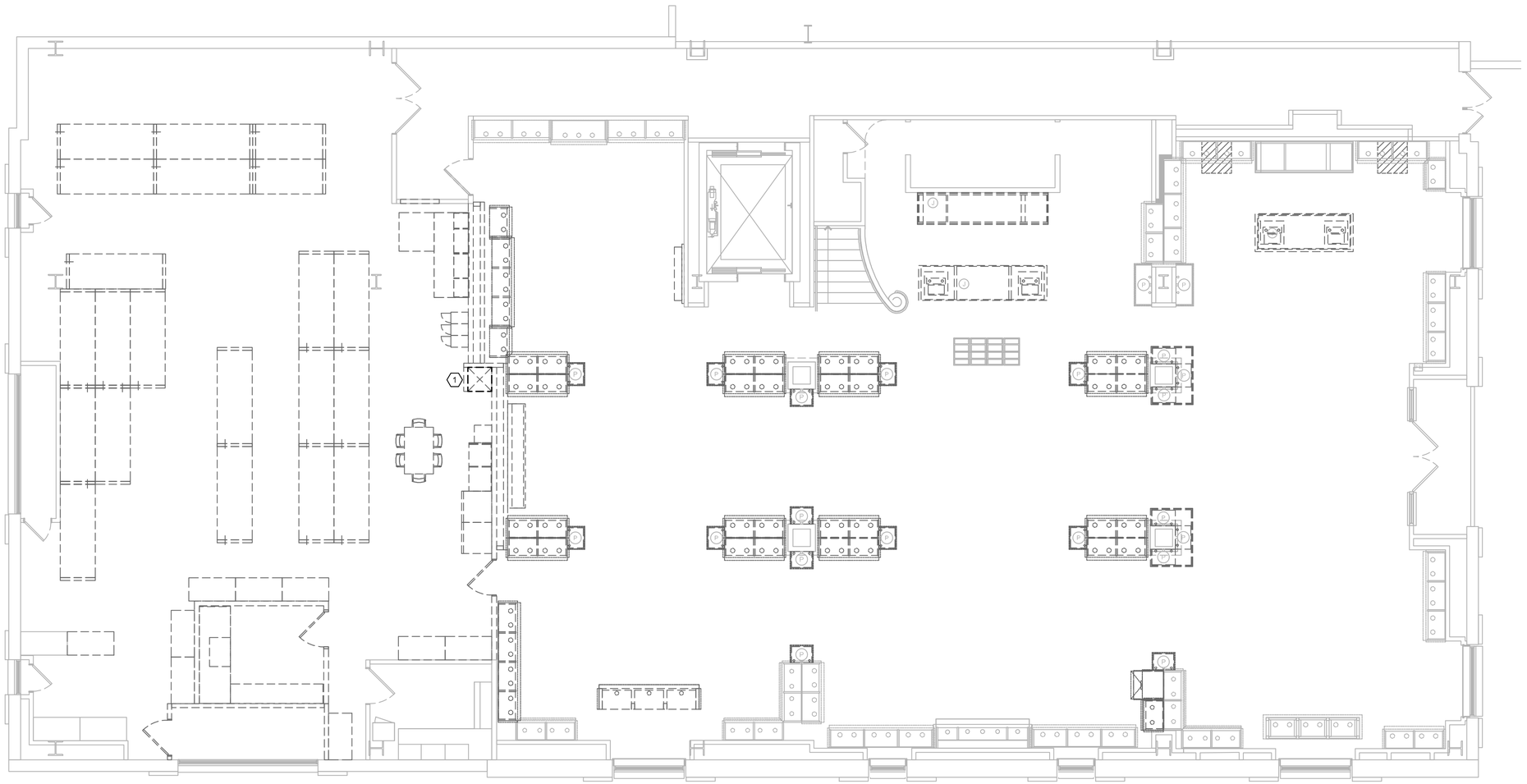
SHEET NO.:
P-001

GENERAL NOTES

A. THE ABBREVIATION G.C., WHEREVER IT APPEARS IN THESE PLUMBING DRAWINGS, SHALL REFER TO THE GENERAL CONTRACTOR.
B. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF ALL SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SUB-CONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
C. ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE PLUMBING SYSTEMS SHALL BE BY A LANDLORD APPROVED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATIONS WITH LANDLORD AND G.C.ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE PLUMBING SYSTEMS SHALL BE BY A LANDLORD APPROVED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATIONS WITH LANDLORD AND G.C.
D. ALL PLUMBING FIXTURES SHALL BE INSTALLED WITH STOP VALVES TO ISOLATE EACH FIXTURE. REFER TO RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
E. ALL SHUT-OFF VALVES LOCATED IN AREAS WITH HARD CEILINGS SHALL HAVE ACCESS PANELS INSTALLED. COORDINATE LOCATION AND TYPE WITH G.C. AND ARCHITECT.
F. CONTRACTOR TO VERIFY THAT ALL ITEMS ON THE CONTRACTOR CHECKLIST ARE COMPLETED PRIOR TO MEP COMMISSIONING. CONTRACTOR WILL RECEIVE CONTRACTOR CHECKLIST IN ELECTRONIC FORM WITH BID DOCUMENTS.

PLUMBING KEYED NOTES ⟨1⟩

1. REMOVE EXISTING MOP SINK AND ALL ASSOCIATED APPURTENANCES BACK TO BELOW SLAB AND ABOVE NEW CEILING AND CAP/PLUG OPEN PIPING. PREPARE HOT & COLD WATER PIPING FOR CONNECTION TO NEW. PREPARE VENT PIPING FOR CONNECTION TO NEW. REFER TO P-110 FOR NEW WORK.



PLUMBING PLAN

3/16"=1'-0"
1

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
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△	DATE	DESCRIPTION
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	11/22/21	BID
	01/13/22	REVISION 1

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PERMIT

Registered Professional Engineer (Mechanical)
CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.

Digitally signed by William Klock, P.E. (AZ)
2022.01.14 15:20:13-06'00'

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SHEET NAME:
1ST FLR - PLUMBING DEMO PLAN

DATE:	PROJECT NO.:
01/13/22	33126
DRAWN:	SCALE: AS NOTED

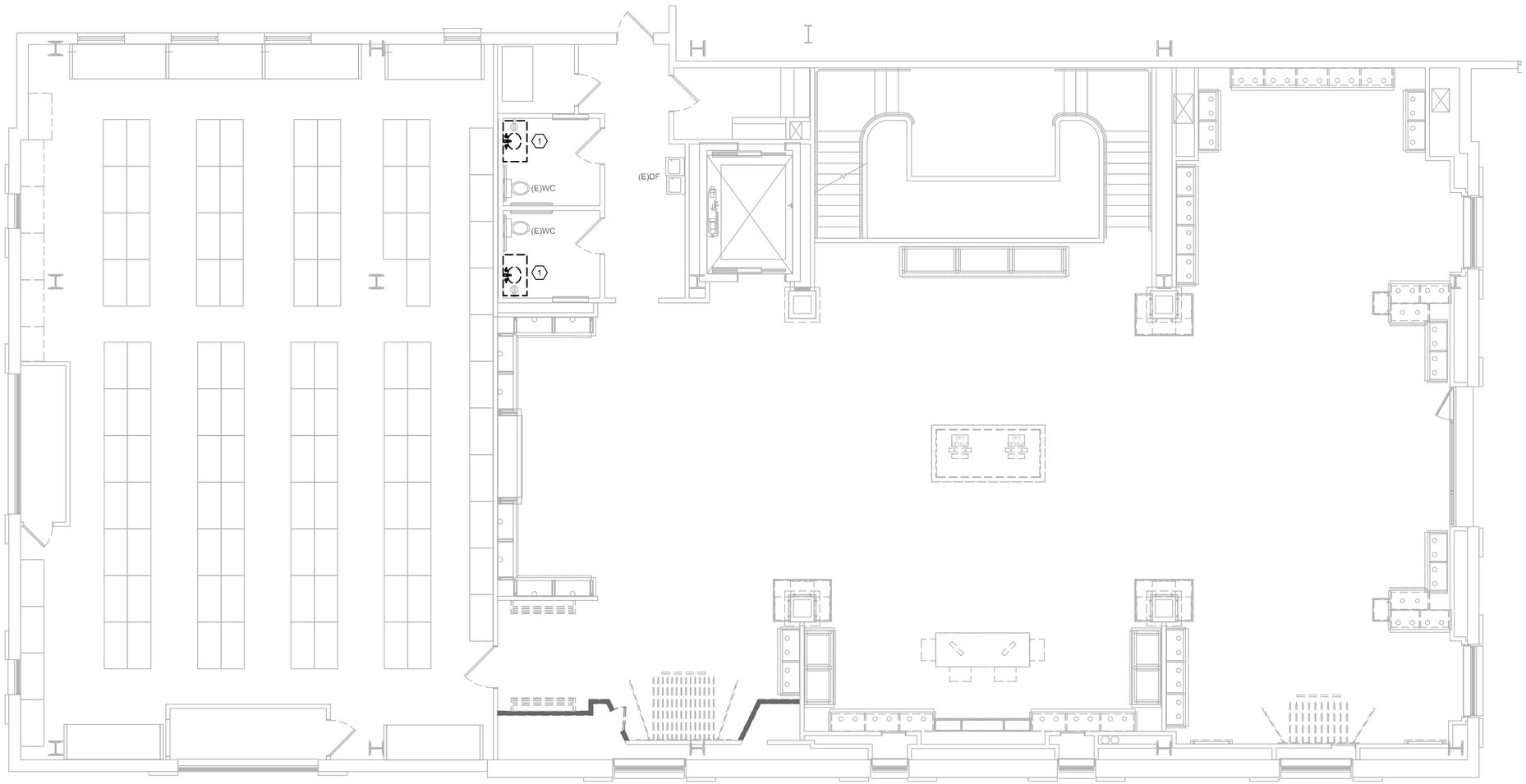
SHEET NO.:
P-100

GENERAL NOTES

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D. ALL PLUMBING FIXTURES SHALL BE INSTALLED WITH STOP VALVES TO ISOLATE EACH FIXTURE. REFER TO RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
E. ALL SHUT-OFF VALVES LOCATED IN AREAS WITH HARD CEILINGS SHALL HAVE ACCESS PANELS INSTALLED. COORDINATE LOCATION AND TYPE WITH G.C. AND ARCHITECT.
F. CONTRACTOR TO VERIFY THAT ALL ITEMS ON THE CONTRACTOR CHECKLIST ARE COMPLETED PRIOR TO MEP COMMISSIONING. CONTRACTOR WILL RECEIVE CONTRACTOR CHECKLIST IN ELECTRONIC FORM WITH BID DOCUMENTS.

PLUMBING KEYED NOTES ⟨-⟩

1. REMOVE EXISTING LAVATORY AND ALL ASSOCIATED APPURTENANCES BACK TO WALL. PREPARE EXISTING PLUMBING PIPING PENETRATIONS FOR CONNECTION TO NEW. REFER TO P-111 FOR NEW WORK.



2ND FLR - PLUMBING DEMO PLAN

3/16"=1'-0"
1

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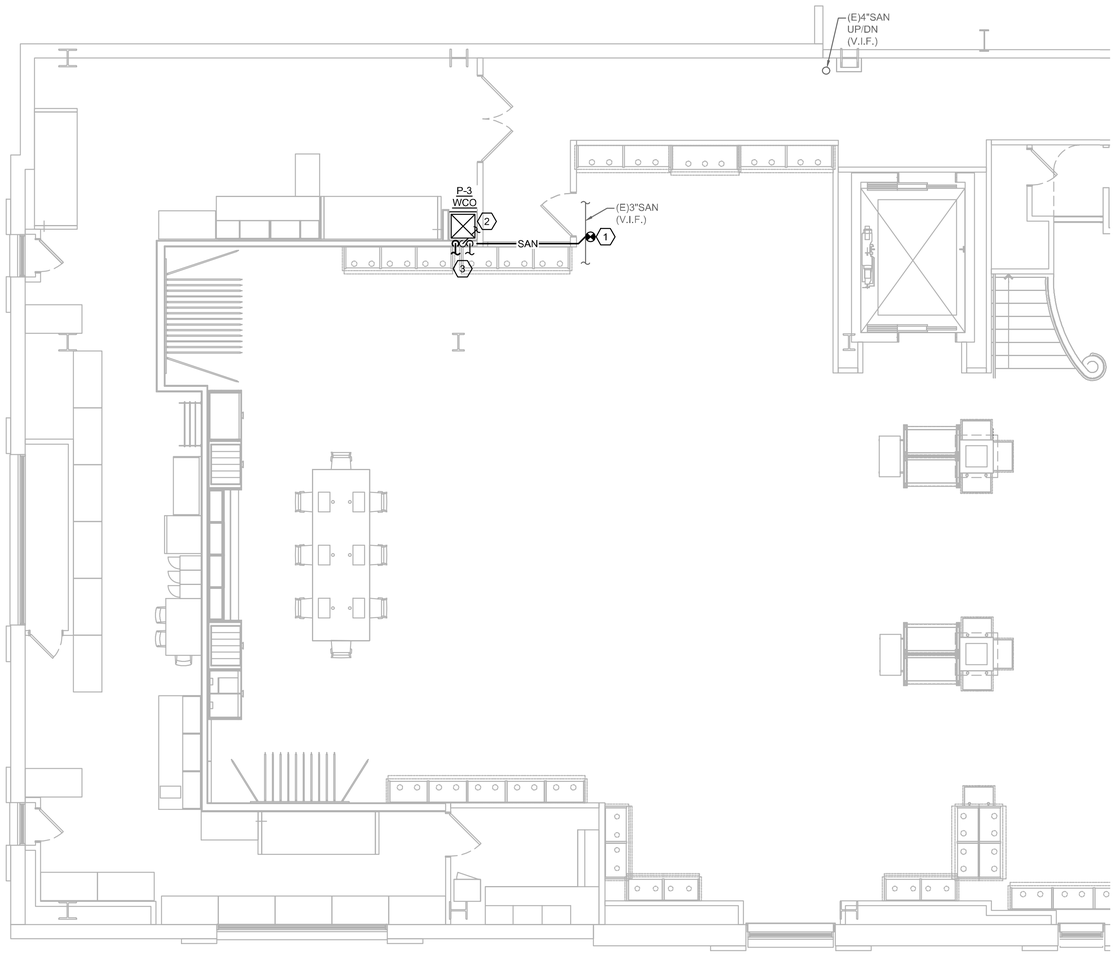
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SHEET NAME:
2ND FLR - PLUMBING DEMO PLAN

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
P-101



GENERAL NOTES

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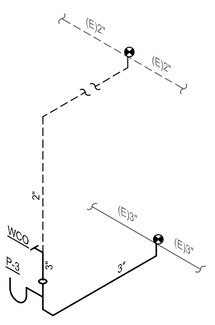
PLUMBING KEYED NOTES

1. CONNECT NEW SANITARY LINE INTO THE LANDLORD'S EXISTING SANITARY SERVICE AS SHOWN. FIELD VERIFY EXACT LOCATION. NOTIFY WSI PM IF EXISTING IS SMALLER THAN SHOWN. REFER TO WASTE AND VENT RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. EXTEND NEW VENT TO EXISTING VENT SERVICE AS SHOWN. FIELD VERIFY EXACT LOCATION. NOTIFY WSI PM IF EXISTING IS SMALLER THAN SHOWN.
3. CONNECT NEW COLD WATER LINE INTO THE EXISTING COLD WATER LINE FROM DEMOLISHED MOP SINK. FIELD VERIFY EXACT LOCATION. NOTIFY WSI PM IF EXISTING IS SMALLER THAN SHOWN. REFER TO COLD WATER AND HOT WATER RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

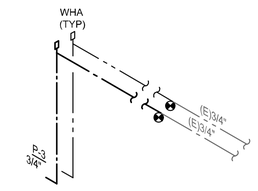
PLUMBING SCHEDULE

MARK	OFCI	DESCRIPTION	FIXTURE	CONNECTIONS				NOTES
				WASTE	VENT	CW	HW (MAX°F	
P-2	X (SINK ONLY)	LAVATORY (ADA)	LACAVA MODEL# 5072-001-01 PROVIDED WITH OVERSIZED EUROPEAN DRAIN #7100-13-44. MAC FAUCETS FA400-1100 - OPTIONS: OIL RUBBED BRONZE, AC 110V ADAPTER, 0.5GPM AERATOR. SET CYCLE TIME TO 30 SEC.	2"	1-1/2"	1/2"	1/2" (105°F	3.4.5,7
P-3		MOP SINK	FLORESTONE #MSR-2424; FAUCET W/INTEGRAL CHECK VALVE AND VACUUM BREAKER. GC TO PROVIDE 3/4", 4' GREEN HOSE.	3"	1-1/2"	3/4"	3/4" (140°F	4
WHA		WATER HAMMER ARRSTOR	ZURN SHOKTROL					
WCO		WALL CLEAN OUT	JAY R, SMITH #4532S	LINE SIZE				

NOTES:
3 PROVIDE OFFSET TRAP, ANGLE STOPS AND BRAIDED S.S. SUPPLY HOSES. PROVIDE LAVATORY INSULATED "TRAP WRAP" PROTECTIVE KIT 500R BY BROCAR OR EQUAL FOR TRAP, HW AND CW SUPPLIES. ABRASIVE RESISTANT EXTERIOR COVER SHALL BE SMOOTH AND HAVE 1/8" WALL MIN. OVER CUSHIONED FOAM INSERT. FASTENERS SHALL REMAIN SUBTANTIALLY OUT OF SIGHT. MOUNT PER LOCAL CODE TO ACCOMMODATE HANDICAPPED USAGE. ADA COMPLIANT.
4 PROVIDE WATER HAMMER ARRESTOR IN WATER SUPPLIES TO MOP SINK.
5 PROVIDE WALL CLEANOUT (WCO) IN MOP SINK WASTE LINE.
7 PROVIDE WITH MIXING VALVE, WATTS LFMMV- M1. MAXIMUM TEMEPERATURE SET POINT SHALL NOT BE GREATER THAN 105°F.



WASTE AND VENT RISER DIAGRAM — NOT TO SCALE — 2



DOMESTIC WATER RISER DIAGRAM — NOT TO SCALE — 3

PLUMBING PLAN — 3/16"=1'-0" — 1

zebra

ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA
EEA Consulting Engineers
6615 Vaught Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeaco.com

State of Registration ARIZONA
Firm Registration No. 13467
EEA Project No. 20216523

STORE NO.:
651

POTTERYBARN
SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
PERMIT

Registered Professional Engineer (Mechanical)
CERTIFICATE NO.
62512
WILLIAM
KLOCK
Date Signed
ARIZONA U.S.A.
Expires: 9/30/2022
William Klock, P.E. (AZ)
2022.01.14 15:20:52-06'00'

FIELD VERIFICATION:
The Contractor shall verify all figured dimensions and conditions at the project site and notify Zebra Projects, INC. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

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SHEET NAME:
1ST FLR - PLUMBING PLAN

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

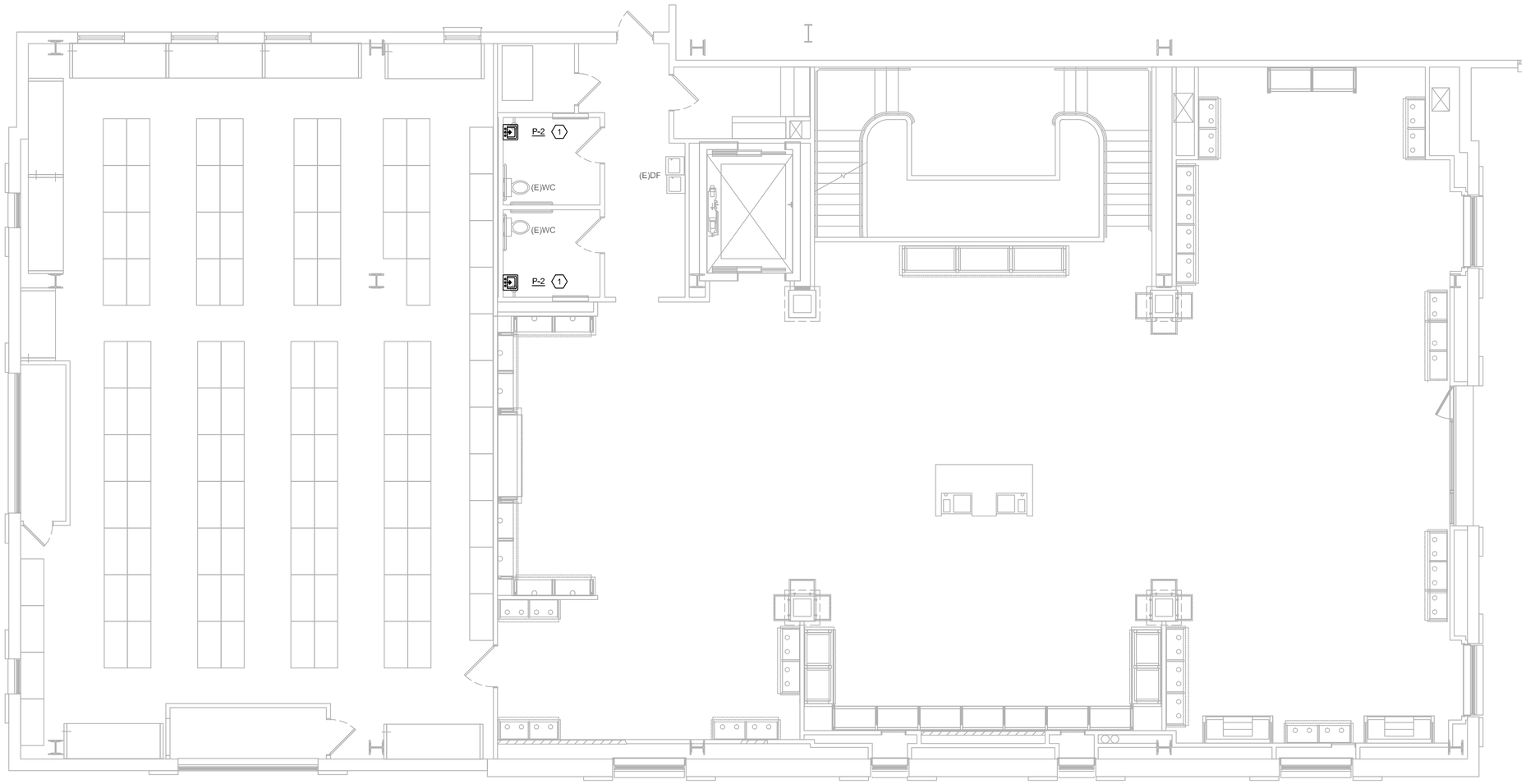
SHEET NO.:
P-110

GENERAL NOTES

A. THE ABBREVIATION G.C., WHEREVER IT APPEARS IN THESE PLUMBING DRAWINGS, SHALL REFER TO THE GENERAL CONTRACTOR.
B. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF ALL SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SUB-CONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
C. ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE PLUMBING SYSTEMS SHALL BE BY A LANDLORD APPROVED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATIONS WITH LANDLORD AND G.C.ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE PLUMBING SYSTEMS SHALL BE BY A LANDLORD APPROVED ROOFING CONTRACTOR. COORDINATE ROOF PENETRATIONS WITH LANDLORD AND G.C.
D. ALL PLUMBING FIXTURES SHALL BE INSTALLED WITH STOP VALVES TO ISOLATE EACH FIXTURE. REFER TO RISER DIAGRAM AND PLUMBING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
E. ALL SHUT-OFF VALVES LOCATED IN AREAS WITH HARD CEILINGS SHALL HAVE ACCESS PANELS INSTALLED. COORDINATE LOCATION AND TYPE WITH G.C. AND ARCHITECT.
F. CONTRACTOR TO VERIFY THAT ALL ITEMS ON THE CONTRACTOR CHECKLIST ARE COMPLETED PRIOR TO MEP COMMISSIONING. CONTRACTOR WILL RECEIVE CONTRACTOR CHECKLIST IN ELECTRONIC FORM WITH BID DOCUMENTS.

PLUMBING KEYED NOTES (-)

1. PROVIDE & INSTALL NEW LAVATORY PER SCHEDULE ON SHEET P-110. CONNECT NEW PLUMBING TO EXISTING PIPING PENETRATIONS FROM REMOVED LAVATORY. REFER TO DEMO PLAN FOR ADDITIONAL INFORMATION.



2ND FLR - PLUMBING PLAN

3/16"=1'-0"
1

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ZEBRA PROJECTS, INC.
14614 N KIERLAND BLVD., SUITE N300
SCOTTSDALE, ARIZONA 85254
PHONE: 480.912.1169 www.zbr.co.uk

EEA

EEA Consulting Engineers
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512.744.4400 main 512.744.4444 fax
www.eaeco.com

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SCOTTSDALE QUARTER,
15279 N. SCOTTSDALE RD. #100
SCOTTSDALE, AZ 85254

REVISIONS

△	DATE	DESCRIPTION
	11/11/21	PERMIT
	11/22/21	BID
	01/13/22	REVISION 1

STATUS:
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SHEET NAME:
2ND FLR - PLUMBING PLAN

DATE: 01/13/22
PROJECT NO.: 33126
DRAWN:
SCALE: AS NOTED

SHEET NO.:
P-111