JD USA, Northwest Arkansas Mall, #1519

Northwest Arkansas Mall

#1519

4201 North Shiloh Drive,
Fayetteville, AR, 72703

OWNER/TENANT

JD SPORTS USA
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LANDLORD: NAMDAR REALY GROUP
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EMAIL: barbie@namdarllc.com
PHONE: (516) 773-0010

BUILDING DEPARTMENT:CITY OF FAYETTEVILLE
CONTACT:BECKY WHITAKER
ADDRESS:BUILDING SAFETY DIVISION, 113 WEST MOUNTAIN STREET, FAYETTEVILLE, AR, 72701
PHONE:(479) 841-3258

DEFERRED SUBMITTALS

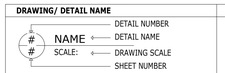
- SIGN SHOP DRAWINGS
  TO BE SUBMITTED BY TENANT SIGN VENDOR UNDER SEPERATE REVIEW
- FIRE SPRINKLER SYSTEM SHOP DRAWINGS (WHERE APPLICABLE)
  TO BE SUBMITTED BY TENANT GC UNDER SEPARATE REVIEW. GC VERIFY PRIOR TO BID IF ANY REQ'D SYSTEM UPGRADES ARE APPLICABLE.
- FIRE ALARM SYSTEM SHOP DRAWINGS (WHERE APPLICABLE)
  TO BE SUBMITTED BY TENANT GC UNDER SEPARATE REVIEW. GC TO VERIFY PRIOR TO BID IF ANY REQ'D SYSTEM UPGRADE ARE APPLICABLE.

ABBREVIATIONS

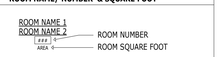
ACT	ACOUSTICAL CEILING TILE	GALV	GALVANIZED	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	GA	GAUGE OR GAGE	OC	ON CENTER
ALT	ALTERNATE	GC	GENERAL CONTRACTOR	OH	OPPOSITE HAND
		GJ	GROUT JOINT	OD	OUTSIDE DIMENSION
BLDG	BUILDING	GL	GLASS		
B/O	BOTTOM OF	GWB	GYPSUM WALL BOARD/DRYWALL	PR	PAIR
CL	CENTER LINE	HDW	HARDWARE	QTY	QUANTITY
CLG	CEILING	HGT	HEIGHT		
CLR	CLEAR	H	HIGH	REF	REFERENCE
COL	CONCRETE MASONRY UNIT	HOC	HOLLOW CORE	RELO	RELOCATED
CONC	CONCRETE	HM	HOLLOW METAL	RO	ROUGH OPENING
D	DEPTH OR DEEP	INSUL	INSULATION	SIM	SIMILAR
DIA	DIAMETER			SPEC	SPECIFICATION
DIM	DIMENSION	L	LENGTH OR LONG	STRUCT	STRUCTURAL OR STRUCTURE
DWG	DRAWING	LDW	LESS THAN DOOR WIDTH		
		LL	LEASE LINE	TEMP	TEMPERED
ELEC	ELECTRICAL	LLD	LANDLORD	TME	TO MATCH EXISTING
EC	ELECTRICAL CONTRACTOR			T/O	TOP OF
EM	EMERGENCY	MAX	MAXIMUM	TS	TUBULAR STEEL
EQ	EQUAL	MGMT	MANAGEMENT	TYP	TYPICAL
EX	EXISTING	MFG	MANUFACTURER		
EXIST	EXISTING	MDF	MEDIUM DENSITY FIBERBOARD	UNO	UNLESS NOTED OTHERWISE
EXT	EXTERIOR	MTL	METAL	U/S	UNDERSIDE
		MIN	MINIMUM		
FF	FINISH FLOOR	MISC	MISCELLANEOUS	VCT	VINYL COMPOSITION TILE
FIN	FINISHED/FINISH	MR	MOISTURE RESISTANT	VIF	VERIFY IN FIELD
FL	FLOOR	MTD	MOUNTED		
F/O	FACE OF			W	WIDTH OR WIDE
FR	FIRE RETARDANT	N/A	NOT APPLICABLE	WD	WOOD
		NIC	NOT IN CONTRACT	W/	WITH

SYMBOLS LEGEND

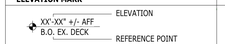
DRAWING/ DETAIL NAME



ROOM NAME/ NUMBER & SQUARE FOOT



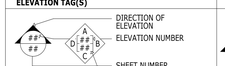
ELEVATION MARK



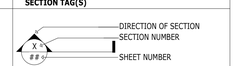
NOTE TAG(S)



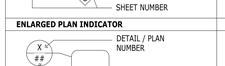
ELEVATION TAG(S)



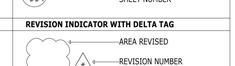
SECTION TAG(S)



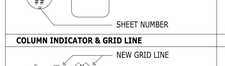
ENLARGED PLAN INDICATOR



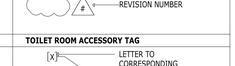
REVISION INDICATOR WITH DELTA TAG



COLUMN INDICATOR & GRID LINE



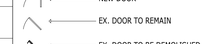
TOILET ROOM ACCESSORY TAG



DOOR TAG(S)



DOOR(S)



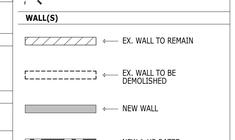
WINDOW TAG(S)



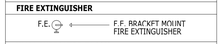
FINISH TAG(S)



WALL(S)



FIRE EXTINGUISHER



WALL INDICATOR TAG(S)



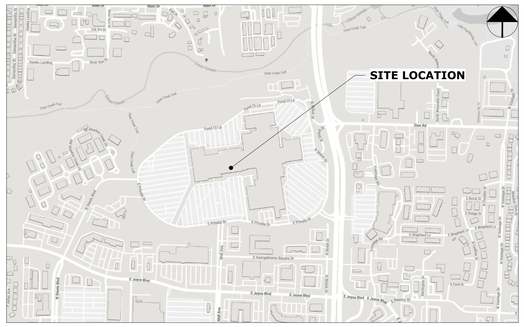
FEASIBILITY APPROVAL

DEPARTMENT	INITIAL	DATE	COMMENTS
RETAIL	KL	09.17.24	Feedback received. Drawing approved at SD issue.
MERCHANDISING	AS	09.17.24	Target options and feedback received. Drawing approved at SD issue.
SLT	SLT	09.24.24	SLT Approved - received AAN on 9.24.24
DESIGN	NM	10.01.24	Architect to ensure SD plan is compliant with local code requirements. Coordination with LL drawings required for shopfront, demising wall, and rear egress.
ROLLER RACKING	NM	10.01.24	No roller racking used.

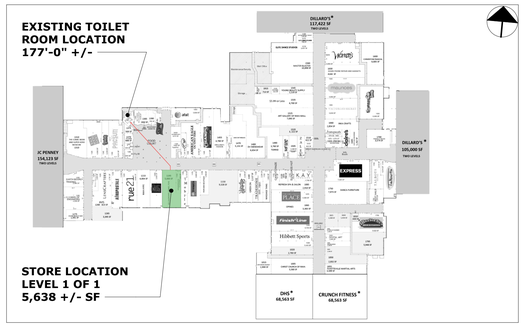
DRAWING INDEX

SHEET NUMBER	SHEET NAME	ORIGINAL ISSUANCES DD Set	ORIGINAL ISSUANCES CD Set	REVISION DATA #	DATE	DESCRIPTION
GENERAL INFORMATION						
CS	COVER SHEET	11/13/2025	12/05/2025			
IS1.0	BUILDING CODE SUMMARY		12/05/2025			
IS2.0	LIFE SAFETY PLAN		12/05/2025			
IS4.0	RESPONSIBILITY SCHEDULE & GENERAL NOTES		12/05/2025			
IS5.0	FINISH SCHEDULE, DOOR SCHEDULE, & NOTES		12/05/2025			
IS6.0	SITE VERIFICATION PLAN		12/05/2025			
ARCHITECTURAL						
D1.0	DEMOLITION FLOOR PLAN	11/13/2025	12/05/2025			
D2.0	DEMOLITION CEILING PLAN	11/13/2025	12/05/2025			
A1.0	CONSTRUCTION PLAN		12/05/2025			
A1.1	PARTITION TYPES	11/13/2025	12/05/2025			
A2.0	FIXTURE PLAN	11/13/2025	12/05/2025			
A2.1	MERCHANDISING PLAN	11/13/2025	12/05/2025			
A3.0	REFLECTED CEILING PLAN	11/13/2025	12/05/2025			
A4.0	STOREFRONT PLANS & ELEVATIONS	11/13/2025	12/05/2025			
A4.1	STOREFRONT SECTIONS & DETAILS	11/13/2025	12/05/2025			
A5.0	INTERIOR ELEVATIONS	11/13/2025	12/05/2025			
A6.0	ENLARGED PLANS AND DETAILS		12/05/2025			
A6.1	ENLARGED PLANS AND DETAILS		12/05/2025			
A7.0	FINISH PLAN	11/13/2025	12/05/2025			
A8.0	POWER AND DATA PLAN		12/05/2025			
A9.1	ARCHITECTURAL SPECIFICATIONS		12/05/2025			
A9.2	ARCHITECTURAL SPECIFICATIONS		12/05/2025			
A9.3	ARCHITECTURAL SPECIFICATIONS		12/05/2025			
A9.4	ARCHITECTURAL SPECIFICATIONS		12/05/2025			
ELECTRICAL						
E0.0	ELECTRICAL SCHEDULES & POWER RISER DIAGRAM		12/05/2025			
E1.0	LIGHTING PLAN AND NOTES		12/05/2025			
E2.0	POWER PLAN, NOTES AND DETAILS		12/05/2025			
E3.0	ELECTRICAL SPECIFICATIONS		12/05/2025			
MECHANICAL						
M0.0	MECHANICAL TITLE SHEET AND DETAILS		12/05/2025			
M1.0	HVAC PLAN		12/05/2025			
M2.0	MECHANICAL SPECIFICATIONS		12/05/2025			
PLUMBING						
P1.0	PLUMBING PLANS AND RISER DIAGRAMS		12/05/2025			

VICINITY MAP



SITE MAP



LANDLORD COMMENTS

#1519

Northwest Arkansas Mall

SUITE #1195
4201 North Shiloh Drive,
Fayetteville, AR, 72703

CONSULTANT

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REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912178
STATE OF ARKANSAS

"I hereby certify that these plans and specifications have been prepared by me, or under my direct supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire Prevention Code for the State of Arkansas".

12/05/2025

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

COVER SHEET

CS

BUILDING CODE SUMMARY

PROJECT NARRATIVE

THIS PROJECT IS AN INTERIOR ALTERATION OF AN EXISTING TENANT SPACE IN A 1-STORY, SPRINKLERED, MULTI-TENANT STRUCTURE TO HOUSE A RETAIL OCCUPANCY. THE SCOPE OF WORK INCLUDES CONSTRUCTION OF A NEW SALES AREA, FITTING ROOM, STAFF AREA, MANAGER'S OFFICE, AND STOCK ROOM; MODIFICATION OF (1) EXISTING TOILET ROOM FOR ACCESSIBILITY COMPLIANCE; AND MODIFICATIONS AND EXTENSIONS OF EXISTING MEP SYSTEMS.

FLOOD ZONE / SUBSTANTIAL IMPROVEMENT STATEMENT:

SITE LOCATION IS WITHIN BOUNDARIES OF FLOOD ZONE 'X', PER FEMA MAPPING AREA OF MINIMAL FLOOD HAZARD. ELEVATION CERTIFICATE IS NOT REQUIRED FOR ZONE 'X' FLOOD ZONE.

APPLICABLE CODES & REGULATIONS

BUILDING:	2021 ARKANSAS FIRE PREVENTION CODE, VOLUME II - BUILDING
MECHANICAL:	2021 INTERNATIONAL MECHANICAL CODE
PLUMBING:	2018 ARKANSAS PLUMBING CODE
ELECTRICAL:	2020 NATIONAL ELECTRICAL CODE
FIRE / LIFE SAFETY:	2021 ARKANSAS FIRE PREVENTION CODE, VOLUME I - FIRE
ENERGY:	2009 INTERNATIONAL ENERGY CONSERVATION CODE
ACCESSIBILITY:	2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

PREVAILING LOCAL AMENDMENTS

REFERENCED SECTION	CODE REQUIREMENTS
USE & OCCUPANCY CLASSIFICATION:	
AFPCB CHAPTER 3	PREVIOUS USE: GROUP M - MERCANTILE (RETAIL STORE) PROPOSED USE: GROUP M - MERCANTILE (RETAIL STORE)
USE & OCCUPANCY CLASSIFICATION:	
AFPCB SECTION 602	CONSTRUCTION CLASSIFICATION: TYPE II-B
AFPCB TABLE 504.3	BUILDING HEIGHT: 75'-0" ALLOWABLE; 20'-0" +/- (SPRINKLERED; EXISTING, NO CHANGE)
AFPCB TABLE 504.4	NUMBER OF STORIES: 3 STORIES ALLOWABLE; 1 STORY (SPRINKLERED; EXISTING, NO CHANGE)
AFPCB TABLE 506.2	BUILDING AREA: 50,000 SF ALLOWABLE; 820,581 +/- SF (SPRINKLERED; EXISTING, NO CHANGE)
AFPCB SECTION 402.4.2.1	EACH TENANT SPACE SHALL BE SEPARATED FROM OTHER TENANT SPACES BY A MINIMUM 1-HR. FIRE RATED PARTITION. A TENANT SEPARATION WALL IS NOT REQUIRED BETWEEN ANY TENANT SPACE AND THE MALL.
AFPCB TABLE 601	FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS PRIMARY FRAME: 0 (EXISTING, NO CHANGE) EXTERIOR BEARING WALLS: 0 (EXISTING, NO CHANGE) INTERIOR BEARING WALLS: 0 (EXISTING, NO CHANGE) INTERIOR NONBEARING WALLS & PARTITIONS: 0 (EXISTING, NO CHANGE) FLOOR CONSTRUCTION: 0 (EXISTING, NO CHANGE) ROOF CONSTRUCTION: 0 (EXISTING, NO CHANGE) RATING OF EXISTING BUILDING ELEMENTS TO BE MAINTAINED.
INTERIOR FINISHES:	
AFPCB TABLE 803.13	INTERIOR WALL AND CEILING FINISH REQUIREMENTS (M OCCUPANCY, SPRINKLERED) INTERIOR EXIT STAIRWAYS, RAMPS & PASSAGEWAYS: CLASS B CORRIDORS & EXIT ENCLOSURES: CLASS C ROOMS & ENCLOSED SPACES: CLASS C
AFPCB SECTION 804.4.2	INTERIOR FLOOR FINISH AND BASE REQUIREMENTS: CLASS II
AFPCB SECTION 806.7	DECORATIVE MATERIALS AND TRIM SHALL BE NONCOMBUSTIBLE OR LIMITED TO 10% OF WALL / CEILING SURFACE

REFERENCED SECTION	CODE REQUIREMENTS
FIRE PROTECTION SYSTEMS:	
AFPCB SECTION 903	AUTOMATIC SPRINKLER SYSTEM REQUIRED; PROVIDED (EXISTING, NO CHANGE)
AFPCB SECTION 905	STANDPIPE SYSTEM REQUIRED; PROVIDED (EXISTING, NO CHANGE)
AFPCB TABLE 906.3(1)	FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS MIN. RATED SINGLE F.E.: 2-A MAX. FLOOR AREA PER UNIT OF 'A': 1,500 SF MAX. FLOOR AREA FOR F.E.: 11,250 SF MAX. TRAVEL DIST. TO F.E.: 75 FEET
AFPCB SECTION 907	FIRE ALARM SYSTEM NOT REQUIRED; NOT PROVIDED (NO CHANGE)
MEANS OF EGRESS:	
AFPCB TABLE 1004.5	OCCUPANT LOAD MERCANTILE: 3,453 SF / 60 GSF = 58 OCCUPANTS STORAGE, STOCK, SHIPPING AREAS: 2,186 SF / 300 GSF = 8 OCCUPANTS TOTAL OCCUPANT LOAD = 64 OCCUPANTS
AFPCB SECTION 1005.3.2	REQUIRED CAPACITY BASED ON OCCUPANT LOAD (OTHER EGRESS COMPONENTS) 64 OCCUPANTS x 0.2" = 12.8" REQUIRED 36" MINIMUM CLEAR, 118" PROVIDED
AFPCB TABLE 1006.2.1	75 FEET MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (GROUP M; SPRINKLERED)
AFPCB TABLE 1006.3.3	2 EXITS REQUIRED; 2 EXITS PROVIDED
AFPCB SECTION 1008	MEANS OF EGRESS ILLUMINATION PROVIDED IN ACCORDANCE WITH THIS SECTION
AFPCB SECTION 1009.1	ACCESSIBLE MEANS OF EGRESS REQUIRED; ACCESSIBLE MEANS OF EGRESS PROVIDED
AFPCB SECTION 1010.1.1	32" MINIMUM CLEAR DOOR WIDTH PROVIDED IN ACCORDANCE WITH THIS SECTION
AFPCB SECTION 1013	EXIT SIGNS PROVIDED IN ACCORDANCE WITH THIS SECTION
AFPCB SECTION 1013.4	TACTILE EXIT SIGNS PROVIDED IN ACCORDANCE WITH THIS SECTION
AFPCB TABLE 1017.2	250 FEET MAXIMUM EXIT ACCESS TRAVEL DISTANCE (GROUP M, SPRINKLERED)
AFPCB TABLE 1020.3	44" MINIMUM CORRIDOR WIDTH REQUIRED; 44" MINIMUM PROVIDED 36" MINIMUM CORRIDOR WIDTH REQUIRED WHERE OCCUPANT IS LESS THAN 50
AFPCB SECTION 1020.5, EXCEPTION 2	DEAD END CORRIDOR LENGTH NOT TO EXCEED 50 FEET (GROUP M, SPRINKLERED)
ACCESSIBILITY:	
AFPCB SECTION 1104	ACCESSIBLE ROUTE REQUIRED; ACCESSIBLE ROUTE PROVIDED
AFPCB SECTION 1105.1.7	(1) ACCESSIBLE ENTRANCE REQUIRED; (1) ACCESSIBLE ENTRANCE PROVIDED
PLUMBING:	
APC SECTION 403.3.4	IN COVERED AND MALL BUILDINGS, THE REQUIRED PUBLIC AND EMPLOYEE TOILET FACILITIES SHALL BE LOCATED NOT MORE THAN ONE STORY ABOVE OR BELOW THE SPACE REQUIRED TO BE PROVIDED WITH TOILET FACILITIES, AND THE PATH OF TRAVEL TO SUCH FACILITIES SHALL NOT EXCEED A DISTANCE OF 300 FEET.
APC TABLE 403.1	MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES DRINKING FOUNTAINS: 1 PER 1,000 1 DRINKING FOUNTAIN REQUIRED 1 HI-LO DRINKING FOUNTAIN PROVIDED OTHER: 1 SERVICE SINK REQUIRED 1 SERVICE SINK PROVIDED

JD

#1519

Northwest Arkansas Mall

SUITE #1195
4201 North Shiloh Drive,
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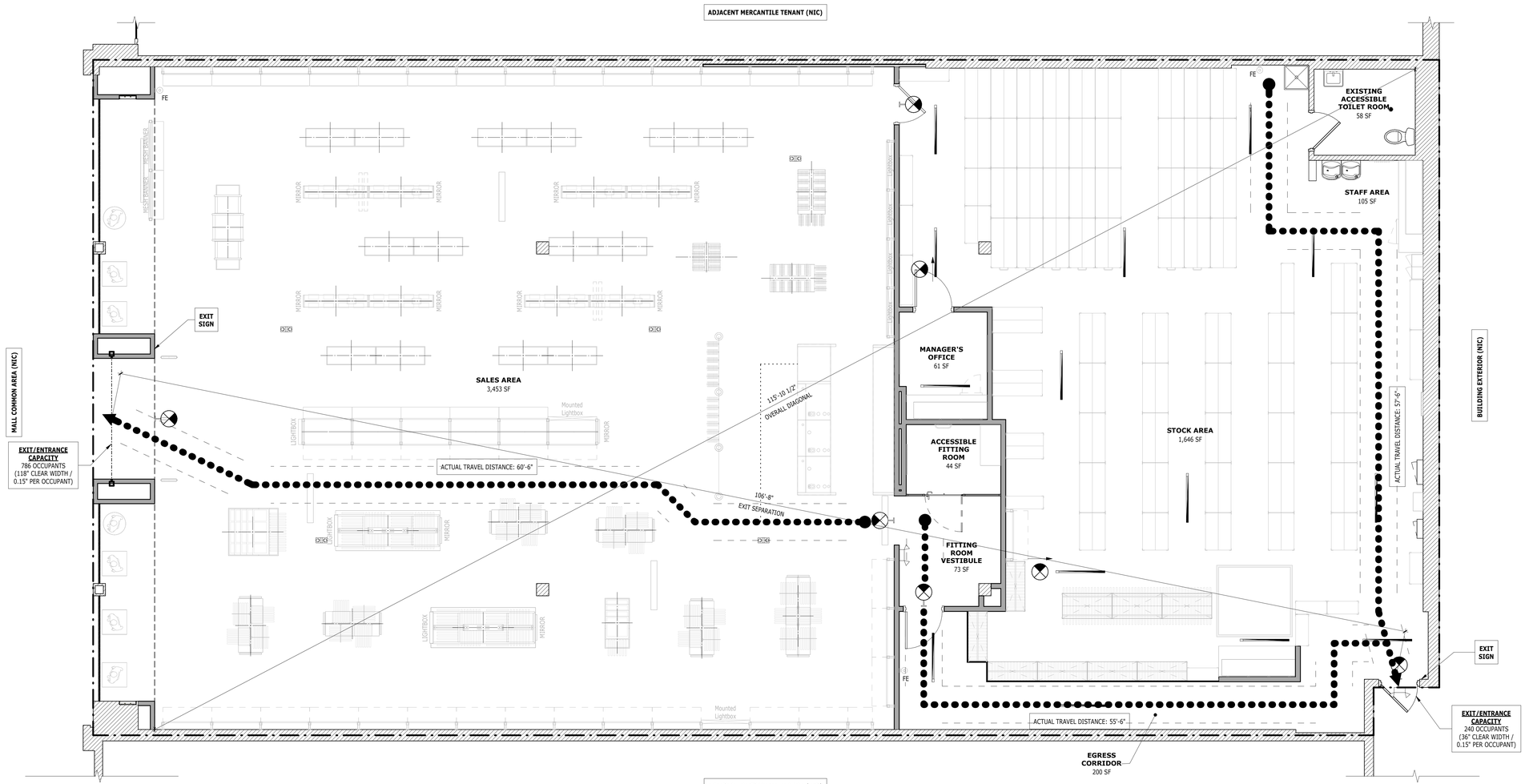
REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912178
STATE OF ARKANSAS

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

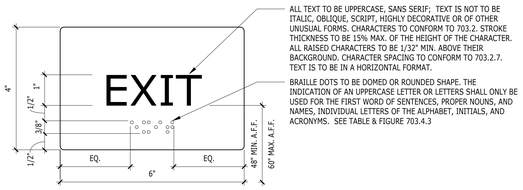
PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

BUILDING CODE SUMMARY

IS1.0



1 IS2.0 **LIFE SAFETY PLAN**
SCALE: 1/4" = 1'-0"



ALL TEXT TO BE UPPERCASE, SANS SERIF; TEXT IS NOT TO BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OF OTHER UNUSUAL FORMS. CHARACTERS TO CONFORM TO 703.2. STROKE THICKNESS TO BE 15% MAX. OF THE HEIGHT OF THE CHARACTER. ALL RAISED CHARACTERS TO BE 1/32" MIN. ABOVE THEIR BACKGROUND. CHARACTER SPACING TO CONFORM TO 703.2.7. TEXT IS TO BE IN A HORIZONTAL FORMAT.

BRAILLE DOTS TO BE DOMED OR ROUNDED SHAPE. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED FOR THE FIRST WORD OF SENTENCES, PROPER NOUNS, AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. SEE TABLE & FIGURE 703.4.3

2 IS2.0 **EXIT SIGN MOUNTING DETAIL**
SCALE: 6" = 1'-0"

LIFE SAFETY LEGEND *NOTE: NOT ALL SYMBOLS LISTED MAY BE USED

	PATH OF TRAVEL W/ MIN. AISLE CLEARANCES
	DIRECTIONAL EXIT SIGN LOCATION
FE	FIRE EXTINGUISHER W/ 75 FT MAX. TRAVEL DISTANCE BETWEEN EXTINGUISHERS
	1-HR. FIRE RATED WALL
X	EMERGENCY LIGHTING WALL PACK
F-12E EM1	EMERGENCY LIGHTING. SEE RCP FOR DETAILS
F-03NL	NIGHT LIGHTS. SEE RCP FOR DETAILS
EXIT SIGN	CODE REQUIRED TACTILE SIGNAGE
45	DOOR AND FRAME FIRE RATING

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (GROUP 'M' SPRINKLERED)
ACTUAL: SEE PLAN ALLOWED: 250'-0"

THIS IS A MULTI-TENANT STRUCTURE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM.

#1519

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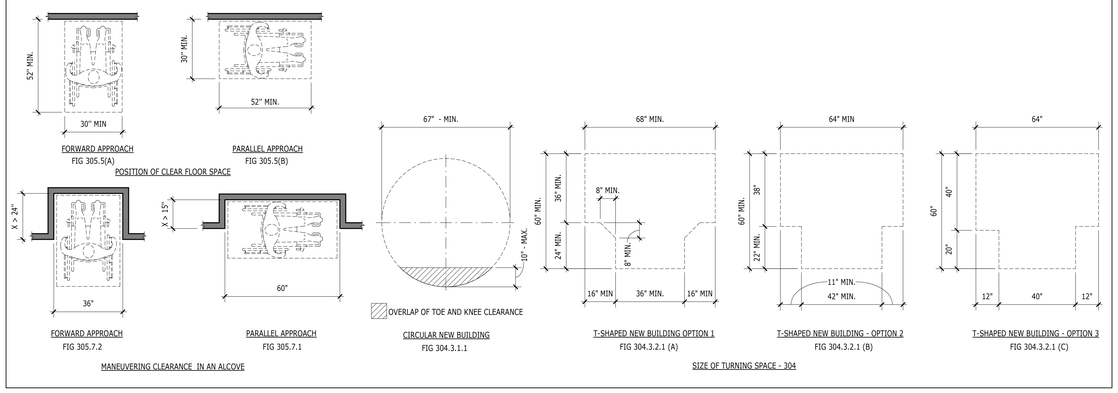
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PROJECT NO:	25428
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LIFE SAFETY PLAN

IS2.0

NEW BUILDINGS - 304 TURNING SPACES SECTIONS AND 305 CLEAR FLOOR SPACES



FORWARD APPROACH
FIG 305.5(A)

PARALLEL APPROACH
FIG 305.5(B)

POSITION OF CLEAR FLOOR SPACE

FORWARD APPROACH
FIG 305.7.2

PARALLEL APPROACH
FIG 305.7.1

MANEUVERING CLEARANCE IN AN ALCOVE

OVERLAP OF TOE AND KNEE CLEARANCE

CIRCULAR NEW BUILDING
FIG 304.3.1.1

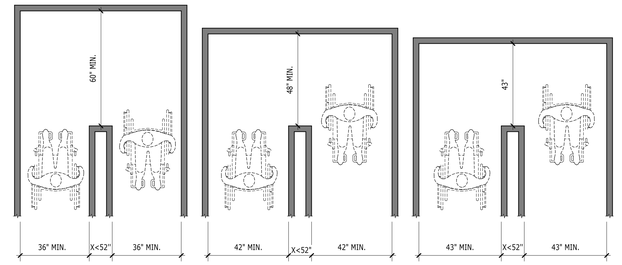
T-SHAPED NEW BUILDING OPTION 1
FIG 304.3.2.1 (A)

T-SHAPED NEW BUILDING - OPTION 2
FIG 304.3.2.1 (B)

T-SHAPED NEW BUILDING - OPTION 3
FIG 304.3.2.1 (C)

SIZE OF TURNING SPACE - 304

NEW BUILDINGS - SECTION 403 CLEAR WIDTH AT 180 DEGREE TURN

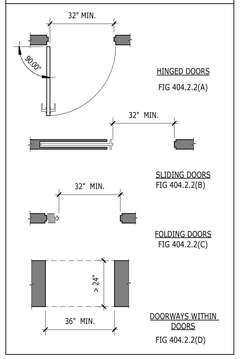


180 DEGREE TURN - OPTION 1
FIG 403.5.2.1 (A)

180 DEGREE TURN - OPTION 2
FIG 403.5.2.1 (B)

180 DEGREE TURN - OPTION 2
FIG 403.5.2.1 (C)

NEW BUILDINGS - 404 CLEAR WIDTH OF DOORWAY



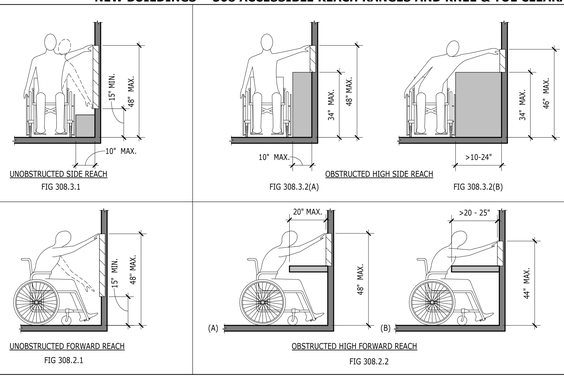
HINGED DOORS
FIG 404.2.2(A)

SLIDING DOORS
FIG 404.2.2(B)

FOLDING DOORS
FIG 404.2.2(C)

DOORWAYS WITHIN DOORS
FIG 404.2.2(D)

NEW BUILDINGS - 308 ACCESSIBLE REACH RANGES AND KNEE & TOE CLEARANCES



UNOBSTRUCTED SIDE REACH
FIG 308.3.1

OBSTRUCTED HIGH SIDE REACH
FIG 308.3.2(A)

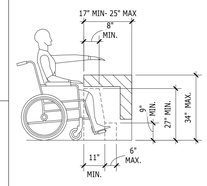
FIG 308.3.2(B)

UNOBSTRUCTED FORWARD REACH
FIG 308.2.1

OBSTRUCTED HIGH FORWARD REACH
FIG 308.2.2

GENERAL NOTE:

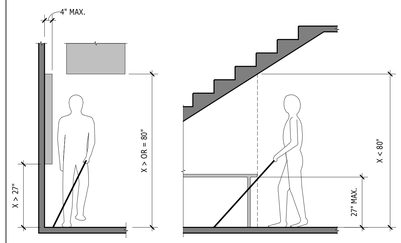
ANY DEVICE THAT WOULD BE OPERABLE IN A COMMON AREA OR PUBLIC SPACE SHALL BE AT ACCESSIBLE REACH RANGES. THE REACH RANGE SHALL BE TO THE TOP OF THE HIGHEST OPERABLE PART OR TO THE BOTTOM OF THE LOWEST OPERABLE PART. NO REACH SHALL EVER BE GREATER THAN 48" A.F.F AND LESS THAN 15" A.F.F. TO THE HIGHEST OPERABLE PART OF THE DEVICE OR FIXTURE.



NOTE:
WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT

KNEE AND TOE CLEARANCES
FIG. 306.2 AND 306.3

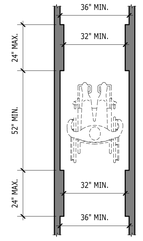
NEW BUILDINGS - 307 PROTRUDING OBJECTS



LIMITS OF PROTRUDING OBJECTS
FIG 307.2

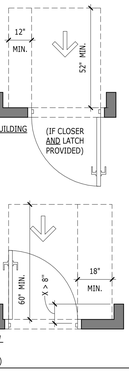
REDUCED VERTICAL CLEARANCE
FIG 307.4

NEW BUILDINGS - 403 WALKING SURFACES



CLEAR WIDTH OF AN ACCESSIBLE ROUTE - NEW BUILDINGS INTERIOR
FIG 403.5.1(A)

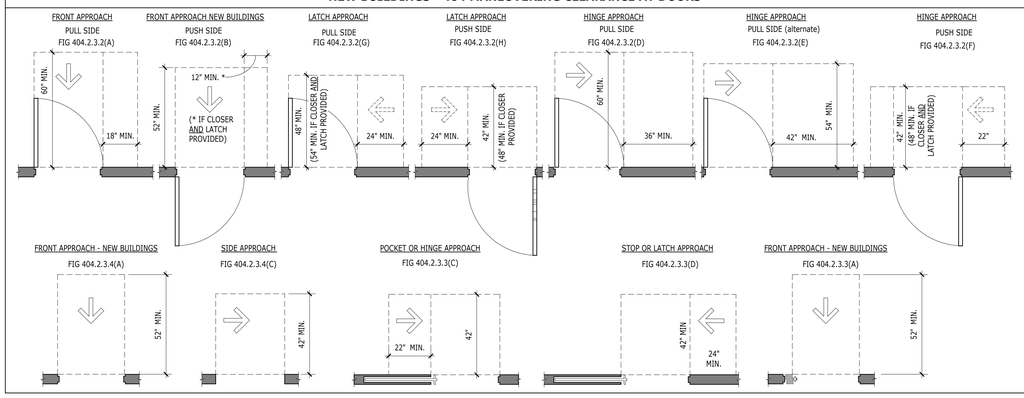
NEW BUILDINGS - 404 MANEUVERING CLEARANCE AT RECESSED DOORS



PUSH SIDE - NEW BUILDING
FIG. 404.2.3.5(B)
FIG. 404.2.3.5(C)

PULL SIDE - NEW BUILDING
FIG. 404.2.3.5(A)

NEW BUILDINGS - 404 MANEUVERING CLEARANCE AT DOORS



FRONT APPROACH
PULL SIDE
FIG 404.2.3.2(A)

FRONT APPROACH NEW BUILDINGS
PUSH SIDE
FIG 404.2.3.2(B)

LATCH APPROACH
PULL SIDE
FIG 404.2.3.2(G)

LATCH APPROACH
PUSH SIDE
FIG 404.2.3.2(H)

HINGE APPROACH
PULL SIDE
FIG 404.2.3.2(D)

HINGE APPROACH
PULL SIDE (alternate)
FIG 404.2.3.2(E)

HINGE APPROACH
PUSH SIDE
FIG 404.2.3.2(F)

FRONT APPROACH - NEW BUILDINGS
FIG 404.2.3.4(A)

SIDE APPROACH
FIG 404.2.3.4(C)

POCKET OR HINGE APPROACH
FIG 404.2.3.3(C)

STOP OR LATCH APPROACH
FIG 404.2.3.3(D)

FRONT APPROACH - NEW BUILDINGS
FIG 404.2.3.3(A)

#1519

Northwest Arkansas Mall

SUITE #1195
4201 North Shiloh Drive,
Fayetteville, AR, 72703

CONSULTANT

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444 Liberty Avenue Suite 1500 Pittsburgh, PA 15222
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REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912178
STATE OF ARKANSAS

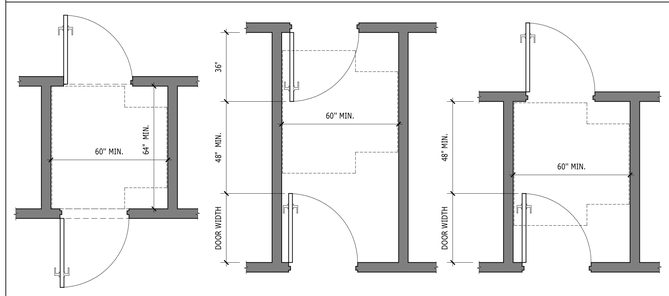
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NEW BUILDING - SECTION 404 TWO DOORS OR GATES IN A SERIES

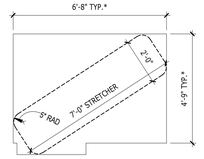


TWO DOORS - NEW BUILDING
FIG 404.2.5(A)

TWO DOORS - NEW BUILDING
FIG 404.2.5(B)

TWO DOORS - NEW BUILDING
FIG 404.2.5(C)

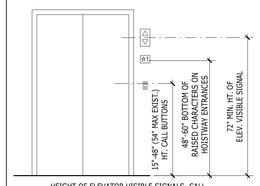
NEW BUILDING - 407 ELEVATOR - STRETCHER



* VERIFY DIMENSIONS AND DOOR CONFIGURATION WITH ELEVATOR MFR. FOR COMPLIANCE

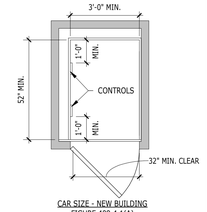
ELEVATORS SERVING 4 OR MORE STORIES

NEW BUILDINGS - 407 ELEVATORS - DOORS



HEIGHT OF ELEVATOR VISIBLE SIGNALS, CALL BUTTONS, AND HOIST SIGNAGE
FIGURE 407.2.2.2(A) FIGURE 407.2.1.1

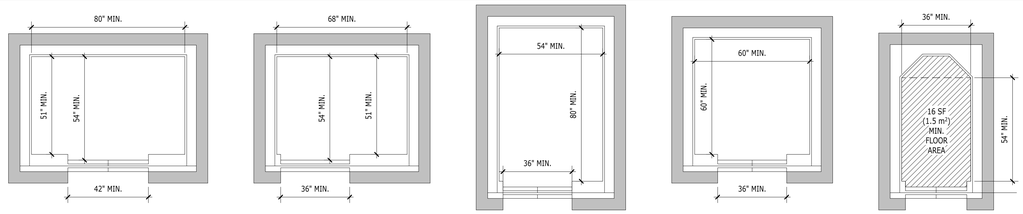
NEW BUILDINGS - SECTION 409 PRIVATE RESIDENCE ELEVATOR



CAR SIZE - NEW BUILDING
FIGURE 409.4.1(A)

NEW BUILDINGS - 407 ELEVATORS

OTHER CONFIGURATIONS ACCEPTABLE IF: DOOR WIDTH ≥ 36" TURNING SPACE COMPLYING WITH 304 IS PROVIDED SEE SECTION 407 FOR ADDITIONAL REQUIREMENTS



CENTERED DOOR LOCATION
FIG 407.4.1(A)

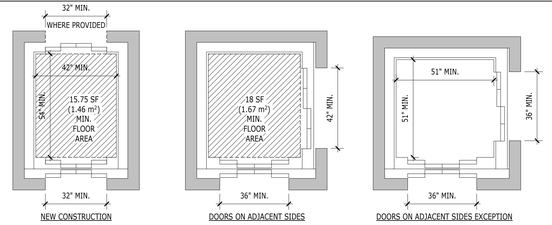
SIDE (OFF-CENTER) DOOR LOCATION
FIG 407.4.1(B)

ANY DOOR LOCATION
FIG 407.4.1(C)

ANY DOOR LOCATION
FIG 407.4.1(D)

EXISTING CAR CONFIGURATION
FIG 407.4.1(E)

NEW BUILDINGS - SECTION 408 L.U.L.A. ELEVATOR CABS AND DOORS

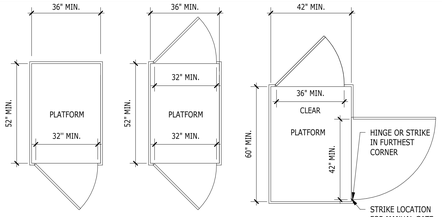


NEW CONSTRUCTION
FIG 408.4.1(A)

DOORS ON ADJACENT SIDES
FIG 408.3.3(C)

DOORS ON ADJACENT SIDES EXCEPTION
FIG 408.3.3(D)

NEW BUILDINGS - SECTION 410 PLATFORM LIFTS AND DOORS



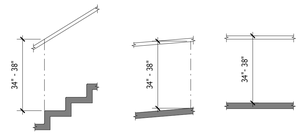
SINGLE DOOR
FIG 410.2.1(A) and 410.5.1.1

OPPOSITE END DOORS
FIG 410.2.1(A) and 410.5.1

ADJACENT SIDE DOORS
FIG 410.2.1(B) and 410.5.2.1

NEW BUILDINGS - SECTION 505 HANDRAILS

HANDRAIL HEIGHTS

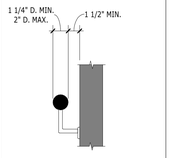


AT STAIRS
FIGURE 505.4(A)

AT RAMPS
FIGURE 505.4(B)

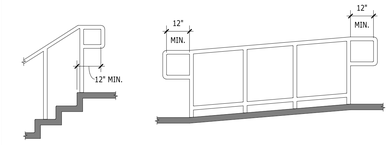
AT WALKING SURFACES

HANDRAIL CLEARANCE



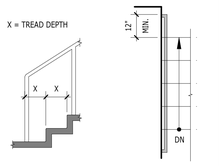
HANDRAIL CROSS SECTION
FIGURE 505.7(A)

HANDRAIL EXTENSIONS



TOP HANDRAIL EXTENSIONS AT STAIRS
FIGURE 505.10.2

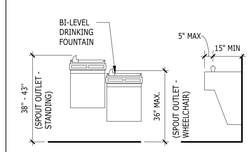
TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMPS
FIGURE 505.10.1



BOTTOM HANDRAIL EXTENSIONS AT STAIRS
FIGURE 505.10.3

HANDRAIL EXTENSION
FIGURE C505.10

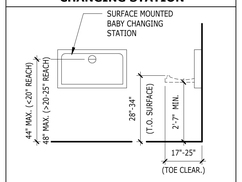
NEW BUILDINGS - 602 DRINKING FOUNTAINS



SPOUT OUTLET HEIGHT
FIG 602.2.3

SPOUT LOCATION
FIG 602.2.4

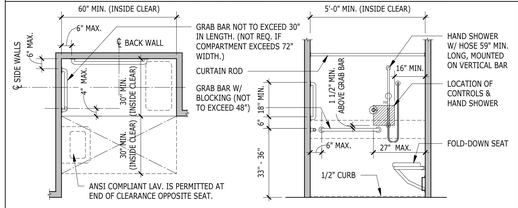
NEW BUILDINGS - 603 DIAPER CHANGING STATION



FRONT ELEVATION

SIDE ELEVATION

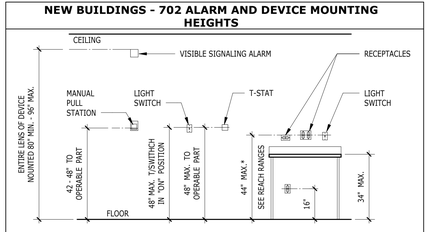
NEW BUILDING - 608 SHOWER COMPARTMENT ROLL IN TYPE



ROLL-IN-TYPE SHOWER COMPARTMENT SIZE
FIG 608.2.2.1 FIG 608.3.2(B)

BACK WALL
FIG 608.3.2(A)

NEW BUILDINGS - 702 ALARM AND DEVICE MOUNTING HEIGHTS



(PER NFPA 72)

LOCATION OF DEVICES ABOVE OBSTRUCTION

JD

#1519

Northwest Arkansas Mall

SUITE #1195
4201 North Shiloh Drive,
Fayetteville, AR, 72703

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REGISTERED ARCHITECT
SCOTT BOFINGER
NO. 9121?8
STATE OF ARKANSAS

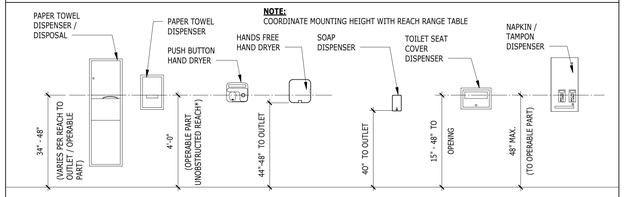
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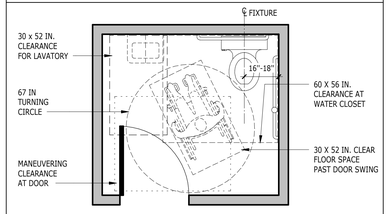
NEW BUILDINGS - 603 DISPENSERS / HAND DRYER MOUNTING HEIGHTS



NOTE:
COORDINATE MOUNTING HEIGHT WITH REACH RANGE TABLE

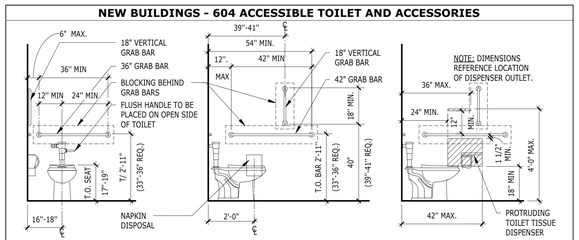
MAX. REACH DEPTH AND HEIGHT (ICC A117.1-2017 TABLE 603.6)						
MAX. REACH DEPTH	0.5"	2"	5"	6"	9"	11"
MAX. REACH HEIGHT	48"	46"	42"	40"	36"	34"

NEW BUILDINGS - 603 TOILET AND BATHING ROOMS



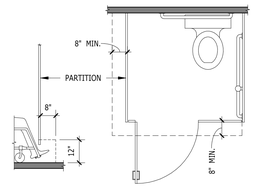
NEW
FIG C603.2.(a) OPTION 1

NEW BUILDINGS - 604 ACCESSIBLE TOILET AND ACCESSORIES



TYPICAL ACCESSIBLE TOILET | TYPICAL ACCESSIBLE TOILET | DISPENSER OUTLET LOCATION
FIG 604.11.7(A),(B) and (C)

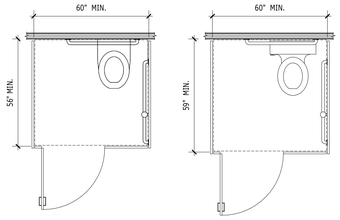
NEW BUILDINGS - SECTION 604 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS - TOE CLEARANCE



ELEVATION
FIG 604.9.5.(A)

PLAN
FIG 604.9.5.(B)

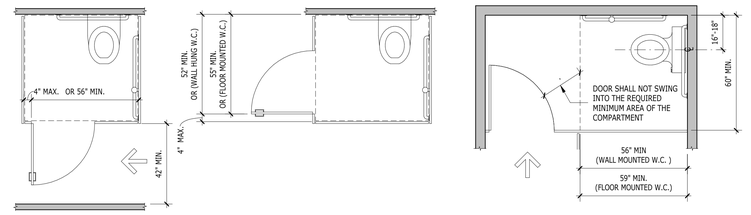
NEW BUILDINGS - SECTION 604 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS



WALL-HUNG WATER CLOSET - ADULT
FIG 604.9.2(A)

FLOOR MOUNTED WATER CLOSET - ADULT
WALL & FLOOR MOUNTED - CHILD
FIG 604.9.2(B)

NEW BUILDINGS - 604 WATER CLOSETS AND TOILET COMPARTMENTS

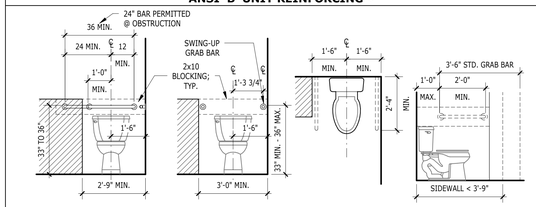


FRONT PARTITION
FIG C604.9.3.1(A)

SIDE WALL OR PARTITION
FIG C604.9.3.1(B)

DOOR SWING ONTO WHEELCHAIR COMPARTMENT
FIG C604.9.3(A)

ANSI 'B' UNIT REINFORCING *



* INSTALL REINFORCING FOR GRAB BARS PER TYP. DETAILS; WHERE POSSIBLE EXCEPTIONS ALLOWED PER ABOVE

REAR WALL GRAB BAR REINFORCEMENT FOR WATER CLOSET FIG 604.5.2

REAR WALL SWING-UP GRAB BAR REINFORCEMENT FOR WATER CLOSET FIG 1004.11.1.1

SIDE WALL GRAB BAR REINFORCEMENT FOR WATER CLOSET 1004.11.1.1 EXCEPTION 4

NEW BUILDINGS - 605 URINALS

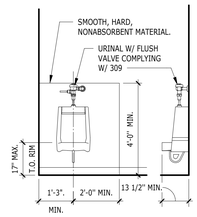
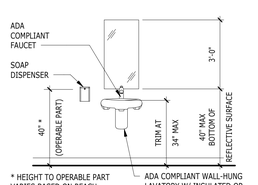


FIGURE 605.2(A)

NEW BUILDINGS - 606 LAVATORIES AND SINKS

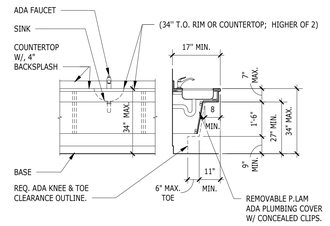


* HEIGHT TO OPERABLE PART VARIES BASED ON REACH DEPTH.

ADA COMPLIANT WALL-HUNG LAVATORY W/ INSULATED OR SHROUDED EXPOSED PIPES

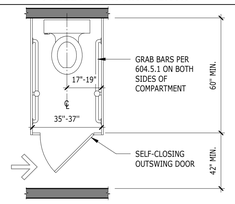
LAVATORIES AND SINKS
FIG C606.2(a)

NEW BUILDINGS - 606 LAVATORY COUNTER



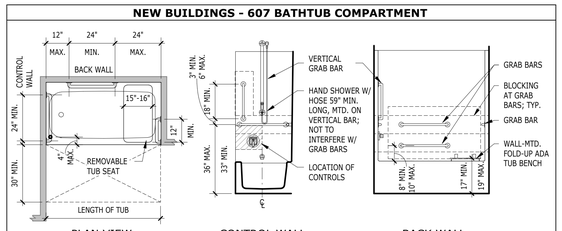
LAVATORIES AND SINKS
FIG C606.2(a)

NEW BUILDINGS - 604 AMBULATORY TOILET COMPARTMENTS



AMBULATORY COMPARTMENT
FIG 604.10.1

NEW BUILDINGS - 607 BATHTUB COMPARTMENT

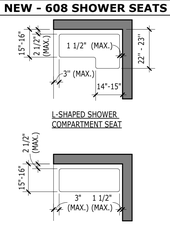


PLAN VIEW
FIG 607.4.2(B)

CONTROL WALL

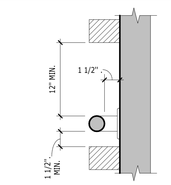
BACK WALL
FIG 607.4.1(A)

NEW - 608 SHOWER SEATS



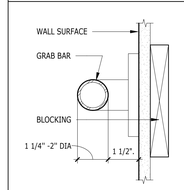
RECTANGULAR SHOWER COMPARTMENT SEAT
FIG 610.3.1

NEW BUILDINGS - 609 GRAB BARS SPACING



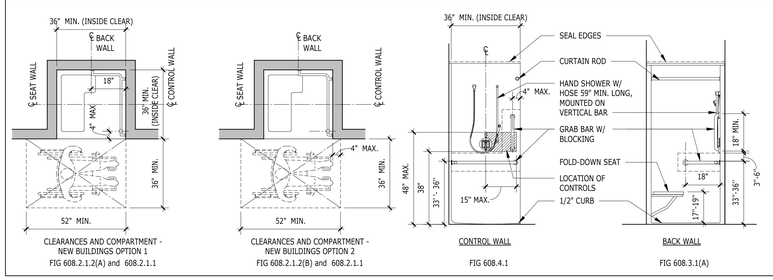
GRAB BAR SECTION DETAIL
FIG 609.3

NEW BUILDINGS - 609 GRAB BARS



GRAB BAR SECTION DETAIL
FIG 609.2

NEW BUILDING - 608 SHOWER COMPARTMENT TRANSFER TYPE



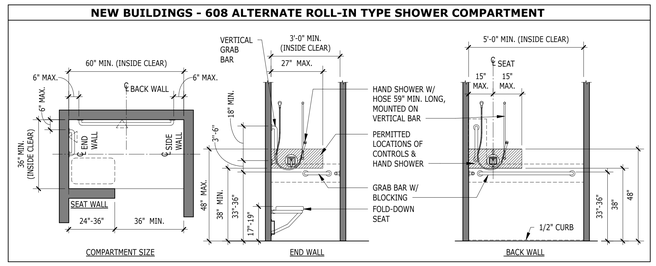
CLEARANCES AND COMPARTMENT - NEW BUILDINGS OPTION 1
FIG 608.2.1.2(A) and 608.2.1.1

CLEARANCES AND COMPARTMENT - NEW BUILDINGS OPTION 2
FIG 608.2.1.2(B) and 608.2.1.1

CONTROL WALL
FIG 608.4.1

BACK WALL
FIG 608.3.1(A)

NEW BUILDINGS - 608 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT



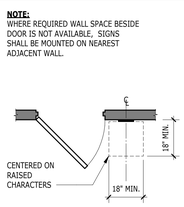
COMPARTMENT SIZE

END WALL

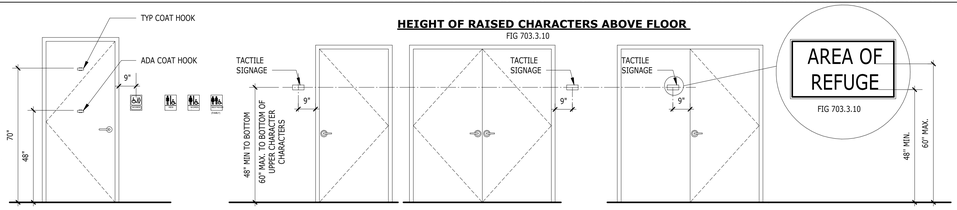
BACK WALL

NEW BUILDINGS - 703 ADA SIGNAGE AT DOORS AND COAT HOOK MOUNTING HEIGHTS

NOTE:
WHERE REQUIRED WALL SPACE BESIDE DOOR IS NOT AVAILABLE, SIGNS SHALL BE MOUNTED ON NEAREST ADJACENT WALL.



LOCATION OF SIGNS AT DOORS
FIG 703.3.11



HEIGHT OF RAISED CHARACTERS ABOVE FLOOR
FIG 703.3.10

SINGLE LEAF DOOR

DOUBLE DOOR, 2-ACTIVE LEAVES

DOUBLE DOOR, 1-INACTIVE; 1-ACTIVE LEAF

FIG 703.3.10

VISUAL CHARACTER HEIGHT
TABLE 703.2.4

HEIGHT ABOVE FLOOR TO BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40" TO LESS THAN OR EQUAL TO 70"	LESS THAN 6'-0"	5/8"
	6 FEET AND GREATER	5/8" + 1/8" PER FOOT OF VIEWING DISTANCE > 6'-0"
GREATER THAN 70" TO LESS THAN OR EQUAL TO 120"	LESS THAN 15'-0"	2"
	15'-0" AND GREATER	2" + 1/8" PER FOOT OF VIEWING DISTANCE > 15'-0"
GREATER THAN 120"	LESS THAN 21'-0"	3"
	21'-0" AND GREATER	3" + 1/8" PER FOOT OF VIEWING DISTANCE ABOVE 21'-0"

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REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912178
STATE OF ARKANSAS

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

ACCESSIBILITY DETAILS

IS3.2

NEW WORK NOTES:

1. UNLESS OTHERWISE NOTED, THE ARCHITECT SHALL SUBMIT DRAWINGS FOR JURISDICTIONAL REVIEW. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TO EACH JURISDICTION ANY ADDITIONAL REQUIRED INFORMATION, INCLUDING RELATED PAPERWORK, SUB-CONTRACTOR LISTS, INSURANCE INFORMATION, ETC. TO OBTAIN PERMIT AND APPROVALS FROM ALL PARTIES HAVING JURISDICTION PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL INSTALL 2A-10BC RATED FIRE EXTINGUISHERS SIMILAR TO JL INDUSTRIES MODEL COSMIC 5E. LOCATE EXTINGUISHERS AS SHOWN. PROVIDE WALL BRACKETS AND MOUNT CONTROLS AT 54" AFF MAX. PROVIDE "FIRE EXTINGUISHER" SIGNS ON WALL DIRECTLY ABOVE EACH UNIT. CONTRACTOR SHALL HAVE EXTINGUISHERS INSPECTED AND TAGGED. VIF QUANTITY W/ FIRE MARSHAL.
3. CONTRACTOR SHALL PROVIDE THE TOILET ROOM(S), THEIR FINISHES, AND FIXTURES ACCORDING TO THE CONSTRUCTION DOCUMENTS OR VERIFY THAT EXISTING TOILET ROOM(S), INCLUDING FIXTURES AND ACCESSORIES, MEET ALL APPLICABLE LOCAL, STATE AND FEDERAL ACCESSIBILITY CODES AND LAWS.
4. NO PENETRATIONS OF EXISTING ROOF STRUCTURE WHATSOEVER SHALL BE ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF LANDLORD. THE CONTRACTOR SHALL USE A LANDLORD APPROVED ROOFING CONTRACTOR FOR ANY AND ALL ROOF PENETRATIONS TO ENSURE CONTINUATION OF ROOF WARRANTY.
5. PROVIDE TENANT IDENTIFICATION SIGN AT REAR DOOR PER LANDLORD AND TENANT CRITERIA.
6. GC SHALL READ AND UNDERSTAND THE MALL / LL'S CONSTRUCTION GUIDELINES AND ADHERE TO ALL REQUIREMENTS SET FORTH BY THESE DOCUMENTS. GC SHALL ALSO FULLY COMPLY WITH ANY AND ALL COMMENTS GENERATED BY LL REVIEW OF CONSTRUCTION DOCUMENTS. GC SHALL KEEP ON-SITE THROUGHOUT CONSTRUCTION A COPY OF THE PERMIT DOCUMENTS APPROVED BY THE LOCAL JURISDICTION, THE LL APPROVED DRAWINGS, AND THE MALL CONSTRUCTION GUIDELINES.
7. IF NOT SET FORTH IN THE CONSTRUCTION DOCUMENTS, THE GC SHALL RECEIVE APPROVAL FOR ALL FIXTURES, FINISHES, CABINETRY, ETC. FROM TENANT, AND LANDLORD, PRIOR TO PURCHASE AND INSTALLATION. GC SHALL BE RESPONSIBLE FOR COORDINATING THE PROCUREMENT AND INSTALLATION OF ALL FIXTURES, FINISHES, EQUIPMENT, RELATED CONDUIT, ACCESSORIES, AND HARDWARE WITH THE PROVIDER AS STATED IN THE CONTRACT DOCUMENTS.
8. GC SHALL FIELD VERIFY NO CONFLICTS EXIST IN LOCATIONS OF ANY MECHANICAL, TELEPHONE, ELECTRICAL, PLUMBING AND SPRINKLER EQUIPMENT (TO INCLUDE ALL PIPING, DUCTWORK, AND CONDUIT) AND ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF ITEMS PROVIDED. ELEMENTS TO BE EXPOSED OR CONCEALED SHALL BE REVIEWED BY LL AND ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION. DEMONSTRATION OF ACCESS TO HIDDEN COMPONENTS SHALL BE REQUIRED.
9. THE GC SHALL BE RESPONSIBLE FOR COMPLETING CONSTRUCTION AS SHOWN IN THE APPROVED CONSTRUCTION DOCUMENTS IN A TIMELY MANNER. CONSTRUCTION SHALL BE CONSIDERED "COMPLETE" UPON RECEIPT OF CERTIFICATE OF OCCUPANCY BY THE LOCAL JURISDICTION AND WRITTEN DOCUMENTATION BY THE LANDLORD AND THE TENANT.
10. GC SHALL BE RESPONSIBLE FOR CONDUCTING A PRE-CONSTRUCTION SITE VISIT TO CONFIRM THE ACCURACY OF THE CONTRACT DOCUMENTS AND BECOME FAMILIAR WITH THE EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL CONFIRM THE WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. CLARIFICATIONS REGARDING ANY CONFLICTS SHALL BE RESOLVED PRIOR TO THE RELATED WORK BEING STARTED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, TENANT AND LL IN WRITING OF DEFICIENCIES IN BASE BUILDING WORK PRIOR TO COMMENCEMENT OF WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE GC(S) TO CORRECT.
11. NO WOOD OR OTHER COMBUSTIBLE MATERIAL SHALL BE USED ABOVE THE CEILING.
12. ALL EXISTING CONDITIONS NOT SCHEDULED FOR RE-USE MUST BE COMPLETELY DEMOLISHED AND PROPERLY DISPOSED OF OFF SITE. NO EQUIPMENT SHALL BE ABANDONED IN PLACE AND ALL UTILITIES MUST BE REMOVED TO THEIR POINT OF ORIGIN.
13. GC SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FR BLOCKING AT ALL REQUIRED LOCATIONS TO ENSURE SUPPORT OF COUNTERS, CABINETS, FIXTURES, SHELVING, ETC.
14. GC SHALL MAKE EVERY EFFORT TO CREATE A SAFE WORKING ENVIRONMENT AND SHALL TAKE ALL REASONABLE CAUTION TO PROTECT EXISTING FINISHES AND FIXTURES TO REMAIN.
15. ALL LOW-VOLTAGE WIRING ABOVE THE CEILING SHALL BE PLENUM RATED UNO. PRIOR TO INSTALLATION, THE GC SHALL CONTACT THE LOCAL JURISDICTION AND THE LL TO DETERMINE IF LOW-VOLTAGE WIRING MUST BE IN CONDUIT ABOVE THE CEILING. GC SHALL INSTALL ALL LOW-VOLTAGE WIRING AS REQUIRED BY THE STATED CODE AND / OR LL REQUIREMENT.
16. GC SHALL BE REQUIRED TO ATTEND A "PRE-CONSTRUCTION MEETING" WITH THE LL UPON PERMIT ISSUANCE AND PRIOR TO COMMENCEMENT OF WORK.
17. 7-DAY, 24-HOUR TIME CLOCK SHALL BE PROVIDED BY GC FOR ILLUMINATION OF THE STOREFRONT, SIGNS, AND SHOW WINDOWS DURING REQUIRED HOURS AS DESIGNATED BY THE LL. CONFIRM TIME SETTING WITH LL.

GENERAL NOTES:

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS. CONSTRUCTION SHALL ALSO COMPLY WITH LL'S CRITERIA (UNLESS PRECLUDED BY CODE).
2. ALL WOOD FRAMEWORK, WOOD BLOCKING AND PLYWOOD SHALL BE FIRE RETARDANT TREATED.
3. ALL FINISH MATERIALS SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATING CLASS C EXCEPT AT VERTICAL EXITS AND EXIT PASSAGEWAYS, WHICH SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATING CLASS B.
4. TENANTS GC SHALL VIF ALL DIMENSIONS AND EX CONDITIONS THREE DAYS PRIOR TO CONSTRUCTION START TO DETERMINE THE EXTENT OF WORK. GC SHALL NOTIFY ARCHITECT AND TENANT OF ANY DISCREPANCIES PRIOR TO BIDDING.
5. ALL MATERIALS INDICATED ARE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING, AND SHALL BE PROVIDED BY TENANTS GC, UNO.
6. ALL EX MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY GC'S OPERATIONS SHALL BE PATCHED OR REPAIRED TO MATCH EX ADJACENT MATERIALS, SO REPAIR IS IMPERCEPTIBLE.
7. DURING THE COURSE OF CONSTRUCTION, IF THE GC UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE CONSTRUCTION PROJECT MANAGER OF SUCH IMMEDIATELY.
8. CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS / PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
9. CONTACT PROJECT MANAGER AND COORDINATE WITH CONSTRUCTION PROJECT MANAGER ANY ADDITIONAL SPECIFICATIONS NOT SPECIFIED HEREIN AND / OR CLARIFICATIONS REGARDING THE CONTRACT DOCUMENTS.
10. GC TO VERIFY ABATEMENT AND / OR REPORT ASBESTOS-CONTAINING MATERIAL ON-SITE TO PROJECT MANAGER AND TENANT UPON DISCOVERY.
11. SMOKE AND FIRE PARTITIONS SHALL BE CONSTRUCTED PER DESIGNATED UL DESIGN AND SHALL BE EXTENDED VERTICALLY TO THE BOTTOM OF THE STRUCTURE ABOVE. PROVIDE FIRE STOPS AND SEAL ALL PIPE AND CONDUIT PENETRATIONS WITH SEALANT THAT COMPLIES WITH THE MIN FIRE RATED REQUIREMENTS FOR THE PARTITION. DUCT PENETRATIONS SHALL BE PROTECTED WITH SMOKE AND / OR FIRE DAMPERS.
12. SIGNS, LOCATION, NUMBER AND SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT. SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.
13. ALL CONCEALED MATERIALS SHALL BE NON-COMBUSTIBLE AND IN COMPLIANCE WITH CURRENT CODES.
14. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. LETTERING SHALL BE NOT LESS THAN 1/2" IN HEIGHT LOCATED ABOVE AN ACCESSIBLE CEILING AND REPEATED IN INTERVALS NOT EXCEEDING 30' HORIZ ALONG WALL OR PARTITION. SUGGESTED WORDING SHALL BE "FIRE AND / OR SMOKE BARRIER - PROTECT ALL OPENINGS".
15. PROJECT DOES NOT INCLUDE ANY HIGH-PILED OR RACK STORAGE.
16. GC TO CONTACT OWNER PRIOR TO START OF CONSTRUCTION TO CONFIRM ALL OWNER / VENDOR SUPPLIED ITEMS, INSTALL & SCHEDULE.
17. ANY / ALL CEILING EQUIPMENT TO BE HUNG FROM TOP CHORD OF TRUSS SYSTEM.
18. GC SHALL NOTIFY TENANT ON DAY ONE OF POSSESSION OF ANY ROOF LEAKS ARE PRESENT OR WATER DAMAGED AREAS.

19. *GC TO SEND WEEKLY CONSTRUCTION PROGRESS PHOTOS TO LGA PROJECT MANAGER.*

GENERAL RESPONSIBILITY NOTE(S):

1. GC TO CONTACT THE LANDLORD TO VERIFY ANY/ALL REQUIRED CONTRACTORS FOR THIS LOCATION. THE GC IS TO PROVIDE ALTERNATE BID(S) FOR ALL LANDLORD REQUIRED CONTRACTORS.
2. GC WILL BE RESPONSIBLE TO CONTACT SECURITY SYSTEM VENDOR AT BEGINNING OF CONSTRUCTION TO SCHEDULE A SITE VISIT BY A TECHNICIAN. THE TECHNICIAN WILL AT THAT TIME, PERFORM A TEST TO DETERMINE THE CAPABILITY OF THE SECURITY SYSTEM WITH THE EXISTING CONDITIONS.
3. GC SHALL BE RESPONSIBLE TO DISPATCH TECHNICIANS WITH SAME DAY RESPONSE TO ALL HVAC OUTAGES DURING THE ONE YEAR WARRANTY PERIOD.

RESPONSIBILITY MATRIX

	EXISTING	NOT APPLICABLE	LANDLORD FURNISH	LANDLORD INSTALL	OWNER/TENANT FURNISH	OWNER/TENANT INSTALL	GENERAL CONTRACTOR FURNISH	GENERAL CONTRACTOR INSTALL	REMARKS:
GENERAL									-
BUILDING PERMIT AND RELATED FEES							X		OWNER TO REIMBURSE GC FOR PERMIT FEES; GC TO APPLY FOR SUB PERMITS AS REQUIRED.
INSPECTIONS							X		GC TO COORDINATE, LEAD AND MANAGE THIS TASK
INSURANCE							X		SUBMITTAL REQUIRED
CERTIFICATE OF OCCUPANCY							X		SUBMITTAL REQUIRED, GC TO COORDINATE, MANAGE AND LEAD THIS TASK
PROFESSIONAL CLEANING							X		REQUIRED PRE-HANDOVER AND PRE-STORE OPENING
TRASH REMOVAL							X		DUMPSTER PLACEMENT TO BE COORDINATED W/ LANDLORD
TEMPORARY UTILITIES							X	X	
TEMPORARY CONSTRUCTION BARRICADE					X	X			
BARRICADE OR WINDOW GRAPHICS					X	X			OWNER PROVIDED/OWNER INSTALLED
FLOOR LEVELING							X	X	
SITE WORK									-
SELECTIVE DEMOLITION OF PARTITION WALLS AND FINISHED CEILING							X	X	
SELECTIVE DEMOLITION OF EXISTING LIGHTING AND ELECTRICAL							X	X	
SELECTIVE DEMOLITION OF EXISTING HVAC AND DUCT WORK							X	X	
CONCRETE									-
CONCRETE SLAB	X								GC TO VERIFY SLAB CONDITION
TRENCHING/ CORE DRILLING/ SAW CUTTING							X	X	GC TO X-RAY SLAB AS REQUIRED
CEMENTITIOUS OVERLAY							X	X	
METALS									
METAL STUDS							X	X	
ACM PANELS					X			X	
BRAKE METAL							X	X	
UNISTRUT, THREADED ROD, AIRCRAFT CABLE, & CONNECTIONS							X	X	FIELD VERIFY REQUIREMENTS
WOOD AND PLASTIC									
PERIMETER POSTS					X			X	COORDINATE W/ FIXTURE VENDOR
FREESTANDING FLOOR FIXTURES					X			X	COORDINATE W/ FIXTURE VENDOR
WALL MOUNTED SHELVING							X	X	
CASHWRAP AND BACKWRAP							X	X	
FITTING ROOM COMPONENTS AND ACCESSORIES					X			X	
METAL STRAPPING							X	X	
THERMAL AND MOISTURE PROTECTION									
SEALANTS/CAULKING	X						X	X	
WATERPROOFING MEMBRANE	X								TO BE MAINTAINED, CONTINUOUS
FIREPROOFING/INSULATION/FIRE CAULK	X						X	X	PATCH & REPAIR AS NEEDED
ROOFING/ROOF REPAIR	X						X	X	PATCH & REPAIR WORK. GC TO USE LANDLORD'S REQ. VENDOR IF APPLICABLE
DOORS AND WINDOWS									
DOORS AND FRAMES	X						X	X	
DOOR HARDWARE							X	X	
OVERHEAD ROLLING GRILLE					X			X	GC TO COORDINATE W/ OWNERS VENDOR
LOCK CORES						X		X	GC TO COORDIANTE & INSTALL
STOREFRONT SYSTEMS AND GLASS							X	X	
FINISHES									
WINDOW FILM							X	X	
CUSTOM WALL COVERING					X	X			
ACOUSTIC CEILING TILE AND GRID	X								
SEALED CONCRETE		X							
TENANT SEPARATION GYP. BD.	X						X	X	GC TO PATCH EXISTING AS REQUIRED
TENANT PARTITION GYP. BD.	X						X	X	GC TO PATCH EXISTING AS REQUIRED
BRAKE METAL BASE					X			X	
PAINT AND PRIMER							X	X	
RUBBER BASE	X						X	X	
LUXURY VINYL TILE					X			X	
VINYL COMPOSITION TILE	X						X	X	PROVIDE AS REQUIRED FOR NEW WORK- REFER TO PLANS
CERAMIC FLOOR TILE		X							
GYP. BD. SUSPENDED CEILING SYSTEM	X						X	X	
FLOOR PREPARATION							X	X	
POPLAR WALL BASE							X	X	
MALL FLOORING AT STOREFRONT	X						X	X	PATCH/REPAIR AS NEEDED
EXTERIOR SIDEWALK AT STOREFRONT		X							
TRANSITTION STRIPS							X	X	
FIBERGLASS REINFORCED PANELS	X						X	X	
YELLOW ILLUMINATED PORTAL LIGHTBOX					X			X	
CARPET TILE							X	X	
WALK-OFF MAT		X							
SPECIALTIES									
STOREFRONT SIGN(S)					X	X			GC TO PROVIDE F.R. BLOCKING AND ELECTRICAL; COORDINATE WITH TENANT VENDOR
BLADE SIGN					X	X			GC TO PROVIDE F.R. BLOCKING AND ELECTRICAL; COORDINATE WITH TENANT VENDOR
FIRE EXTINGUISHERS							X	X	GC TO VERIFY FINAL QUANTITY & LOCATION W/ FIRE MARSHAL
TOILET ROOM ACCESSORIES	X						X	X	
STOCK ROOM SHELVING (FIXED)					X			X	
STOCK ROOM SHELVING (MOBILE)		X							
APPAREL RACKING					X			X	
CODE REQUIRED SIGNAGE							X	X	
VINYL SIGNAGE					X			X	
SUSPENDED SIGNAGE					X			X	
DIGITAL SCREENS					X	X			
LIGHT BOXES					X			X	
DISPLAY TRACK					X			X	
SAFE					X			X	
MIRRORS		X							
BREAK ROOM COUNTERTOP							X	X	
REFRIGERATOR AND MICROWAVE							X	X	BLACK COLORED APPLIANCES
LOCKERS							X	X	GC TO COORDINATE LOCATION W/ OWNERS REPRESENTATIVE
COAT HOOKS							X	X	GC TO COORDINATE LOCATION W/ OWNERS REPRESENTATIVE
EQUIPMENT									
AUDIO HARDWARE					X	X			
AUDIO SYSTEM					X	X			GC TO PROVIDE CONDUIT; VENDOR TO PROVIDE FINAL CONNECTIONS
CASH REGISTER/POS SYSTEM					X	X			LOW-VOLTAGE WIRING BY VENDOR
TELEPHONE SYSTEM					X	X			LOW-VOLTAGE WIRING BY VENDOR
CCTV					X	X			GC TO PROVIDE CONDUIT; VENDOR TO PROVIDE FINAL CONNECTIONS
EAS DEVICES					X	X			GC TO PROVIDE CONDUIT; VENDOR TO PROVIDE FINAL CONNECTIONS
TRAFFIC COUNTER					X	X			GC TO PROVIDE CONDUIT; VENDOR TO PROVIDE FINAL CONNECTIONS
FOOTWEAR ORDER SCREEN (FOS)					X			X	GC TO PROVIDE CONDUIT; VENDOR TO PROVIDE FINAL CONNECTIONS
DUMBWAITER UNIT(S)		X							
MECHANICAL									
HVAC UNITS	X								
PLUMBING FIXTURES	X						X	X	
FIRE SPRINKLER SHUT-OFF AND MODIFICATION	X						X	X	
ELECTRICAL									
LIGHT FIXTURES AND LAMPS	X				X			X	GC TO COORDINATE W/TENANT VENDOR
METER SOCKET	X								UNLESS NOTED OTHERWISE
ELECTRICAL PANEL(S)	X						X	X	
HIGH VOLTAGE CONDUIT							X	X	
LOW VOLTAGE CONDUIT							X	X	GC TO PROVIDE ALL CONDUIT W/ PULL STRINGS
DATA AND LOW VOLTAGE WIRING					X	X			
LOW VOLTAGE PULL STRING IN CONDUIT							X	X	
FIRE/SMOKE ALARM	X						X	X	
POWERED RAIL							X	X	
CCTV WIRING						X	X		CABLING FOR CCTV BY VENDOR
CCTV HARDWARE					X	X			TERMINATION AND CAMERA INSTALL BY VENDOR
DOORBELL							X	X	
BOTTOM OF MOUNT FOR FOOTWEAR ORDERING SCREEN (FOS)							X	X	
UNISTRUT FOR EAS							X	X	BRACKETS PREFERRED

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REGISTERED ARCHITECT
SCOTT BOFINGER
NO. 912178
STATE OF ARKANSAS

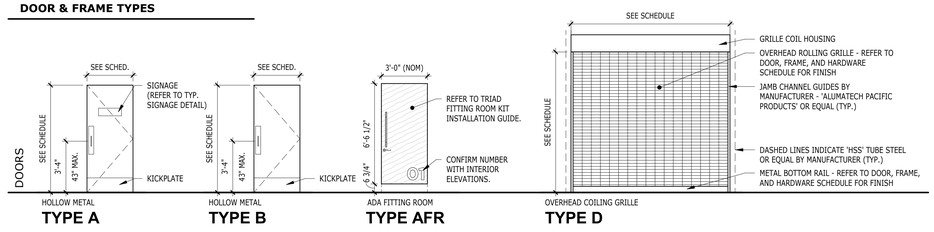
REVISION DATES	
12/05/2025	
ORIGINAL ISSUE DATE	

PROJECT NO:	25428
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CHECKED BY:	

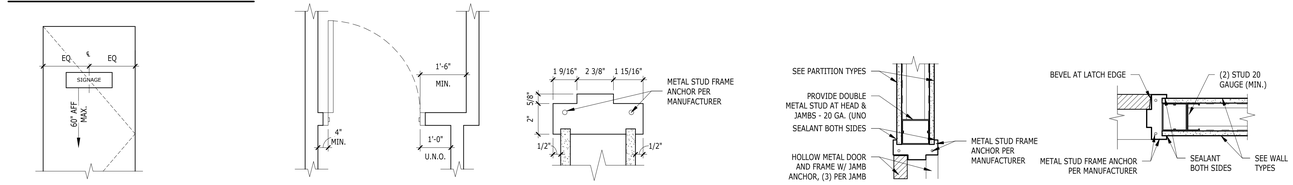
RESPONSIBILITY SCHEDULE & GENERAL NOTES

IS4.0

DOOR & FRAME TYPES



DOOR & FRAME DETAILS



1 IS5.0 **TYP. SIGNAGE LOCATION** SCALE: 1/2" = 1'-0"

2 IS5.0 **TYP. DOOR PLACEMENT** SCALE: 1/2" = 1'-0"

3 IS5.0 **DOUBLE RABBET DETAIL** SCALE: 3" = 1'-0"

4 IS5.0 **HM FRAME - HEAD DETAIL** SCALE: 1 1/2" = 1'-0"

5 IS5.0 **HM FRAME - JAMB DETAIL** SCALE: 1 1/2" = 1'-0"

GENERAL FINISH NOTES

1. ALL INTERIOR WALL AND CEILING FINISHED SHALL BE IN ACCORDANCE WITH CURRENT STATE AND LOCAL BUILDING CODES. THE GC SHALL PROVIDE ALL FLAME SPREAD AND SMOKE DENSITY RATINGS FOR FINISH MATERIALS TO THE BUILDING DEPARTMENT AS REQUIRED.

2. GC TO PROVIDE ALL MATERIALS/PRODUCTS REQUIRED FOR INSTALLATION OF FINISH MATERIALS UNO ALL FINISH MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. CONTACT THE SALES REP FOR THE PROPER INSTALLATION. IF THEY ARE NOT CONTACTED FOR PROPER INSTALLATION PROCEDURES, THEN THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR IMPROPER INSTALLATION AND WILL BE REQUIRED TO RE-INSTALL OR CORRECT FINISHES IMMEDIATELY AND AT CONTRACTOR'S SOLE COST AND EXPENSE.

3. ALL INTERIOR WALL AND CEILING FINISHES SHALL MEET THE FOLLOWING SPECIFICATIONS:

TENANT SIDE	WALLS & CEILINGS
A. CLASS 'C' FLAME SPREAD INDEX	76 TO 200 MAX
B. SMOKE DENSITY RATING	450 MAX

4. ALL WOOD MUST BE CLASS 'A' FIRE RATED NON-COMBUSTIBLE MATERIAL AND ALL WOOD FIXTURE MUST BE CLASS 'A' STAMPED OR FURNISH MANUFACTURER'S CERTIFICATION.

5. ALL PAINTED SURFACES TO RECEIVE ONE (1) PRIME COAT AND TWO (2) FINISH COATS, UNO.

6. ALL MATERIALS INSTALLED SHALL BE A MINIMUM OF CLASS II; EXCEPT ALL MATERIALS INSTALLED ON THE STOREFRONT SHALL BE A MINIMUM OF CLASS I. MATERIALS NOT MEETING THE CLASS MINIMUMS, SHALL BE COVERED WITH A COATING OF NOT LESS THAN 1/28" THICK THAT IS FIRE RATED FOR THE REQUIRED CLASSIFICATION.

7. AFTER INSTALLATION OF ALL FIXTURES, GC TO TOUCH UP ANY SURFACES THAT MAY BE DAMAGED.

8. WITHIN THREE (3) DAYS OF THE COMPLETION OF DEMOLITION, GC IS RESPONSIBLE FOR TESTING THE CONCRETE SLAB FOR MOISTURE CONTENT USING WAGNER RELATIVE HUMIDITY RAPID RH TESTING KIT. GC TO CONTACT PRODUCT MANUFACTURER PRIOR TO BIDDING FOR TESTING, EXISTING CONDITIONS RECOMMENDATIONS AND COMPLETE APPLICATION INSTRUCTIONS. GC MUST PROVIDE ADD ALTERNATE BID ON BID FORM. SEE MOISTURE BARRIER CHART ON FINISH PLAN SHEET FOR TESTING REQUIREMENTS & PRODUCT SPECIFICATIONS.

9. AFTER REQUIRED MOISTURE AND RELATIVE HUMIDITY TEST RESULTS ARE RECEIVED, GC IS RESPONSIBLE FOR PROVIDING A LEVEL CONCRETE SLAB PRIOR TO FLOOR INSTALLATION. GC MUST FOLLOW MANUFACTURER RECOMMENDATIONS AND INSTRUCTIONS FOR SUITABLE SUBSTRATES, FLOOR PREPARATION, AND APPLICATION. GC TO PROVIDE BID ON BID FORM FOR THE FOLLOWING:

FOR MINOR SURFACE CONCRETE DEFECTS, PATCHING, SMOOTHING, AND FEATHERING; RECOMMENDED PRODUCTS INCLUDE:

*ARDEX - FEATHER FINISH: SELF-DRYING, CEMENT-BASED FINISHING UNDERLAYMENT
*MAPEI - PLANIPREP FF: PREMIUM SKIMCOATING AND PATCHING COMPOUND
*MAPEI - PLANIPATCH: FAST-SETTING, POLYMER-MODIFIED, CEMENT-BASED PATCHING COMPOUND

FOR MAJOR CONCRETE DEFECTS AND SELF-LEVELING REPAIR; RECOMMENDED PRODUCTS INCLUDE:

*ARDEX - K-15: SELF-LEVELING SUB-FLOOR SMOOTHING COMPOUND
*MAPEI - PLANIPATCH PLUS SYSTEM: AN EMBOSSING LEVELER
*MAPEI - ULTRAPLAN 1 PLUS: HIGH-PERFORMANCE, QUICK-SETTING, SELF-LEVELING UNDERLAYMENT

DOOR, FRAME, AND HARDWARE SCHEDULE

#	LOCATION	DOOR PANEL MATL	TYPE	FINISH	WIDTH	HEIGHT	THICK	DOOR FRAME MATL	TYPE	FINISH	HEAD	JAMB	RATING (Minutes)	HDW SET	REMARKS
1.0	STOREFRONT	HM	D	PT-1	118"	132"	1 3/4"	HM	ALM	PT-1	3/IS6.0	2/IS6.0	--	1.1	
2.0	REAR EXIT	EX	EX	PT-5	36"	84"	1 3/4"	EX	EX	PT-5	--	--	--	5	2
3.0	SALES/STOCKROOM	HM	B	PT-5	36"	84"	1 3/4"	HM	1	PT-5	3/IS6.0	2/IS6.0	--	6	
3.1	SALES/STOCKROOM	HM	B	PT-5	36"	84"	1 3/4"	HM	1	PT-5	3/IS6.0	2/IS6.0	--	6	
4.0	ACCESSIBLE FITTING ROOM	--	AFR	--	36"	84"	1 3/4"	--	3	--	--	--	--	2	
5.0	MANAGER'S OFFICE	HM	B	PT-5	36"	84"	1 3/4"	HM	1	PT-5	3/IS6.0	2/IS6.0	--	3	
6.0	EXISTING TOILET ROOM	EX	EX	PT-5	36"	84"	1 3/4"	EX	EX	PT-5	--	--	--	7	2

REMARKS
1. ACCESS CONTROL SYSTEM: MAGLOCK AND KEYPAD. KEYPAD IN STAINLESS STEEL FINISH. COORDINATE REQUIREMENTS WITH OWNER. DOOR IS NOT SECURED FROM EGRESS SIDE AND WILL ALWAYS BE OPENABLE FROM EGRESS SIDE. LOSS OF POWER, ACTIVATION OF BUILDING FIRE ALARM AND FIRE SPRINKLER SYSTEM (WHEN PROVIDED) AUTOMATICALLY UNLOCKS DOOR.
2. NEW HARDWARE COMPONENTS ARE REQUIRED ONLY IF EXISTING HARDWARE COMPONENTS DO NOT EXIST OR ARE NOT FUNCTIONING PROPERLY. G.C. SHALL V.I.F AND REPORT TO ARCHITECT DURING BIDDING PHASE.

DOOR HARDWARE LEGEND

#	NAME	HARDWARE
1.1	OVERHEAD COILING GRILLE	1 'BEST' MORTISE CYLINDER IE74 - 1-1/2" US32D 1 'BEST' MORTISE ANSI/ADA-COMPLIANT THUMB CYLINDER US32D 1 'BEST' 7-PIN CORE NOTE: • GC TO ENSURE ANSI/ADA-COMPLIANT THUMB CYLINDER IS ACCEPTABLE BY LOCAL BUILDING INSPECTOR. • PROVIDE SIGNAGE ON EGRESS SIDE ADJACENT TO DOOR STATING "THIS DOOR SHALL REMAIN UNLOCKED WHEN STORE IS OCCUPIED."
2	ACCESSIBLE & STANDARD FITTING ROOM	PER 'TRIAD' MANUFACTURER'S STANDARDS
3	MANAGER'S OFFICE	3 BUTT HINGES: 4 1/2" x 4 1/2"; BUTT; FINISH US26D 1 CLASSROOM FUNCTION; MECHANICAL LOCKSET SCHLAGE REMOVABLE LOCKSET; FINISH US26D 3 SILENCERS: SR64 1 FLOOR STOP: #1153M; FINISH US26D 1 CLOSER W/ HOLD OPEN; #DC6200; PAINT TO MATCH DOOR COLOR 1 KICKPLATE: ROCKWOOD K1050; 8" TALL X 2" LDW; FINISH US26D
5	BOH EXIT DOOR	3 BUTT HINGES: 4 1/2" x 4 /1/2"; BUTT; FINISH US26D 1 EXIT DEVICE: ECL-230X-TDB; EXIT CONTROL LOCK WITH ALARM 3 SILENCERS: SR64 1 FLOOR OR WALL STOP (WHERE APPLICABLE):445/446 OR 402 1/2(408 1/2); FINISH US26D 1 CLOSER: #DC6200; PAINT TO MATCH DOOR COLOR 1 PEEPHOLE: RESIDENTIAL TYPE MOUNTED @ 60" A.F.F. 1 DOOR BOTTOM; #222AV 1 SMOKE GASKET AROUND ENTIRE PERIMETER
6	BOH / STOCK ROOM	3 BUTT HINGES: 4 1/2" x 4 /1/2"; BUTT; FINISH US26D 1 PULL PLATE: #8311; FINISH: SATIN ALUMINUM 1 PUSH PLATE: #8200; SIZE 3 1/2" X 15"; FINISH SATIN ALUMINUM 3 SILENCERS: SR64 1 FLOOR STOP: #1153M; FINISH US26D 1 CLOSER W/ HOLD OPEN; #DC6200; PAINT TO MATCH DOOR COLOR 1 KICKPLATE: ROCKWOOD K1050; 8" TALL X 2" LDW; FINISH US26D
7	TOILET ROOM	3 BUTT HINGES: 4 1/2" x 4 /1/2"; BUTT; FINISH US26D 1 LOCKSET: CAL-ROYAL; INDLEV-20; PRIVACY INDICATOR;26D 3 SILENCERS: SR64 1 FLOOR STOP: #1153M; FINISH US26D 1 CLOSER W/ HOLD OPEN; #DC6200; PAINT TO MATCH DOOR COLOR 1 COAT HOOK 1 KICKPLATE: ROCKWOOD K1050; 8" TALL X 2" LDW; FINISH US26D

FINISH LEGEND

MARK	PRODUCT	MANUFACTURER	SUPPLIED	INSTALLED	LOCATION	DESCRIPTION	REMARKS
	* NOT ALL FINISHES LISTED MAY BE USED. *					* NOT ALL FINISHES LISTED MAY BE USED. *	
PAINT							
PT-1	SW: 7667 "ZIRCON"	SHERWIN WILLIAMS	GC	GC	SALES FLOOR PERIMETER WALLS BELOW THE PAINT LINE	RAL 7047 - EQUIVALENT WALLS - SEMIGLOSS FINISH WALLS RECEIVING VINYL - SEMIGLOSS FINISH BASEBOARDS - SEMIGLOSS FINISH	1,2,4
PT-3	SW: 7075 "WEB GREY"	SHERWIN WILLIAMS	GC	GC	SALES FLOOR CEILING/DECK/COLUMNS AND ABOVE PAINTLINE	RAL 7012 EQUIVALENT WALL - SEMIGLOSS FINISH WALLS RECEIVING VINYL - SEMIGLOSS FINISH BASEBOARD - SEMIGLOSS FINISH	1,2,4
PT-4	SW: 6992 "INKWELL"	SHERWIN WILLIAMS	GC	GC	BACKSIDE OF STOREFRONT/ WINDOW BED/ COLUMNS	RAL 7021 EQUIVALENT WALL - SEMIGLOSS FINISH BASEBOARD - SEMIGLOSS FINISH	1,2
PT-5	SW: 7005 "PURE WHITE"	SHERWIN WILLIAMS	GC	GC	MANAGER'S OFFICE, STAFF ROOM, PUBLIC RESTROOMS,CORRIDORS	WALL - SEMIGLOSS FINISH WALLS RECEIVING VINYL - SEMIGLOSS FINISH BASEBOARD - SEMIGLOSS	1,2,4
PT-6	SW: 6991 "BLACK MAGIC"	SHERWIN WILLIAMS	GC	GC	STOREFRONT, FASCIA GLAZING FRAMES, DOOR FRAMES	RAL 9004 30% GLOSS WALL - SEMIGLOSS FINISH WALLS RECEIVING VINYL - SEMIGLOSS FINISH BASEBOARD - SEMIGLOSS FINISH	1,2,3,4
WALL COVERINGS							
VN-1	BRICK SLIP VINYL	CLIENT VENDOR	OWNER	GC	BACKWRAP WALL FITTING ROOM WALLS (PROJECT SPECIFIC)	WALLS RECEIVING VINYL SHALL BE FINISHED IN SEMIGLOSS	4
VN-2	CUSTOM	CLIENT VENDOR	VENDOR	VENDOR	STAFF ROOM. S&G TO PROVIDE ARTWORK	WALLS RECEIVING VINYL SHALL BE FINISHED IN SEMIGLOSS	4
T-1	BRICK SLIP TILE	CLIENT VENDOR	VENDOR	GC	BACKWRAP WALL FITTING ROOM WALLS (PROJECT SPECIFIC)	WALLS RECEIVING TILE w/ 3/8" GROUT. GROUT: MAPEI IRON S107 CEMENT GREY	8
FRP-1	FIBERGLASS REINFORCED PLASTIC	LOCALLY SOURCED	GC	GC	BOH COMMON AREA, RESTROOMS, DRINKING FOUNTAINS		6,7
FLOOR COVERINGS							
LVT-1	SVART VINYL TILE - PRINTED CONCRETE AGGREGATE EFFECT	TARKETT	OWNER	GC	SALES FLOOR AND PORTIONS OF THE ENTRY TO BOH		
CT-1	CERAMIC TILE	REFIN	OWNER	GC	SALES FLOOR AND PORTIONS OF THE ENTRY TO BOH	APPLIES ONLY WHEN NOTED. TILE SIZE 598 x 598 (1'-11 5/8" x 1'-11 5/8") TILE THICKNESS: 9MM (3/8")	
SC-1	SEALED CONCRETE	LOCALLY SOURCED	GC	GC	STOCK ROOM AND STAFF ROOM	MANAGER'S OFFICE FOR STREAMLINE LOCATIONS	6
VCT-1	SOFT WARM GREY; 51861 OR EQ	ARMSTRONG OR EQ	GC	GC	RESTROOM	TILE DIMENSION: 12" x 12" x 1/8"	9
CP-1	CARPET - BLACK	LOCALLY SOURCED	GC	GC	MANAGER'S OFFICE	GC TO PROVIDE LOCAL SPECS FOR CONSTRUCTION PM & DESIGNER APPROVAL	6
WM-1	WALK-OFF MAT	LOCALLY SOURCED	GC	GC	ENTRY	GC TO PROVIDE CUT SHEET FOR FINAL APPROVAL. APPLIED ON AT EXTERIOR LOCATIONS	6
EPT-1	SW: 4081 "SAFETY RED"	SHERWIN WILLIAMS	GC	GC	PROCESSING AREA	PRO INDUSTRIAL HIGH PERFORMANCE EPOXY PAINT	9
EPT-2	SW: 4084 "SAFETY YELLOW"	SHERWIN WILLIAMS	GC	GC	EGRESS & ELECTRICAL EQUIPMENT	PRO INDUSTRIAL HIGH PERFORMANCE EPOXY PAINT	9
T-1	BLACK PU21 COLORBODY PORCELAIN	DALTILE	GC	GC	EXTERIOR STOREFRONTS ONLY	12X24" TILE THICKNESS 5/16" BUTT JOINT	
METAL FINISHES							
ACM-1	ACM PANELS W/ GRID PRINT	CLIENT VENDOR	OWNER	GC	STOREFRONT FINISH		5
MT-1	BRAKE METAL FINISHED IN RAL 9004 w 30% GLOSS	LOCALLY SOURCED	GC	GC	STOREFRONT AND SHOW WINDOW		6
BASE							
WB-1	POPLAR WOOD BASE	LOCALLY SOURCED	GC	GC	SALES FLOOR FITTING ROOM AND VESTIBULE	FITTING ROOM AND VESTIBULE BASE MAY VARY PENDING ON GRADE	6
RB-1	CG: 21 "PLATINUM"	LOCALLY SOURCED	GC	GC	STOCKROOM & PUBLIC CORRIDOR	BASE HEIGHT: 4" TALL	9
MISC.							
FM-1	FORMICA "BLACK MATE"	LOCALLY SOURCED	GC	GC	STAFF ROOM AND MANAGER'S OFFICE TABLE TOP FINISHES	BLACK MATTE: 909-58.4 BLACKSPLASH TO BE PROVIDED WHERE SPECIFIED; STAFF ROOM TABLETOP 4" RETURN	
ACT-1	ACOUSTIC CEILING TILES	LOCALLY SOURCED	GC	GC		REFER TO PLANS FOR DIMENSIONS.	6
TRIM							
TR-1	SIGNAL BLACK RAL 9004 - 30% GLOSS	LOCALLY SOURCED	GC	GC	FITTING ROOM LOBBY ENTRANCE/ DIGITAL CASH DESK/ PLATFORM EDGE AT WINDOW BED	BRICK SLIP TILE - TRIM TO MATCH THICKNESS OF TILE FITTING ROOM LOBBY ENTRANCE - 1/2"/ DIGITAL CASH DESK - 1/2"/ PLATFORM EDGE AT WINDOW BED - LESS THAN 1/2"	
TR-2	STONE GREY RAL 7030 - 30% GLOSS	LOCALLY SOURCED	GC	GC	CEMBRIT PANEL & VINYL		

1. WALLS - MATTE FINISH.
2. BASE - EGGSHELL FINISH.
3. 30% GLOSS FINISH.
4. WALL TO BE PAINTED IN SEMI-GLOSS FINISH AND ALLOWED TO CURE FOR NO LESS THAN 10 DAYS PRIOR TO INSTALLATION.
5. EDGES OF PANEL TO BE FOLDED.
6. GC TO PROVIDE LOCALLY SOURCED PRODUCT AND PROVIDE SUBMITTAL FOR CLIENT PM & DESIGNER'S APPROVAL.
7. APPLIED TO WALLS BEHIND AND ADJACENT TO WATER CLOSET AS INDICATED ON RESTROOM DRAWINGS.
8. 1/4" THICK CEMENT BOARD TO BE PROVIDED AS SUBSTRATE FOR TILE INSTALLATION.
9. BASIS FOR DESIGN. SUBMITTALS FOR EQUAL ALTERNATIVES TO BE SUBMITTED TO CLIENT PM & DESIGNER FOR APPROVAL.

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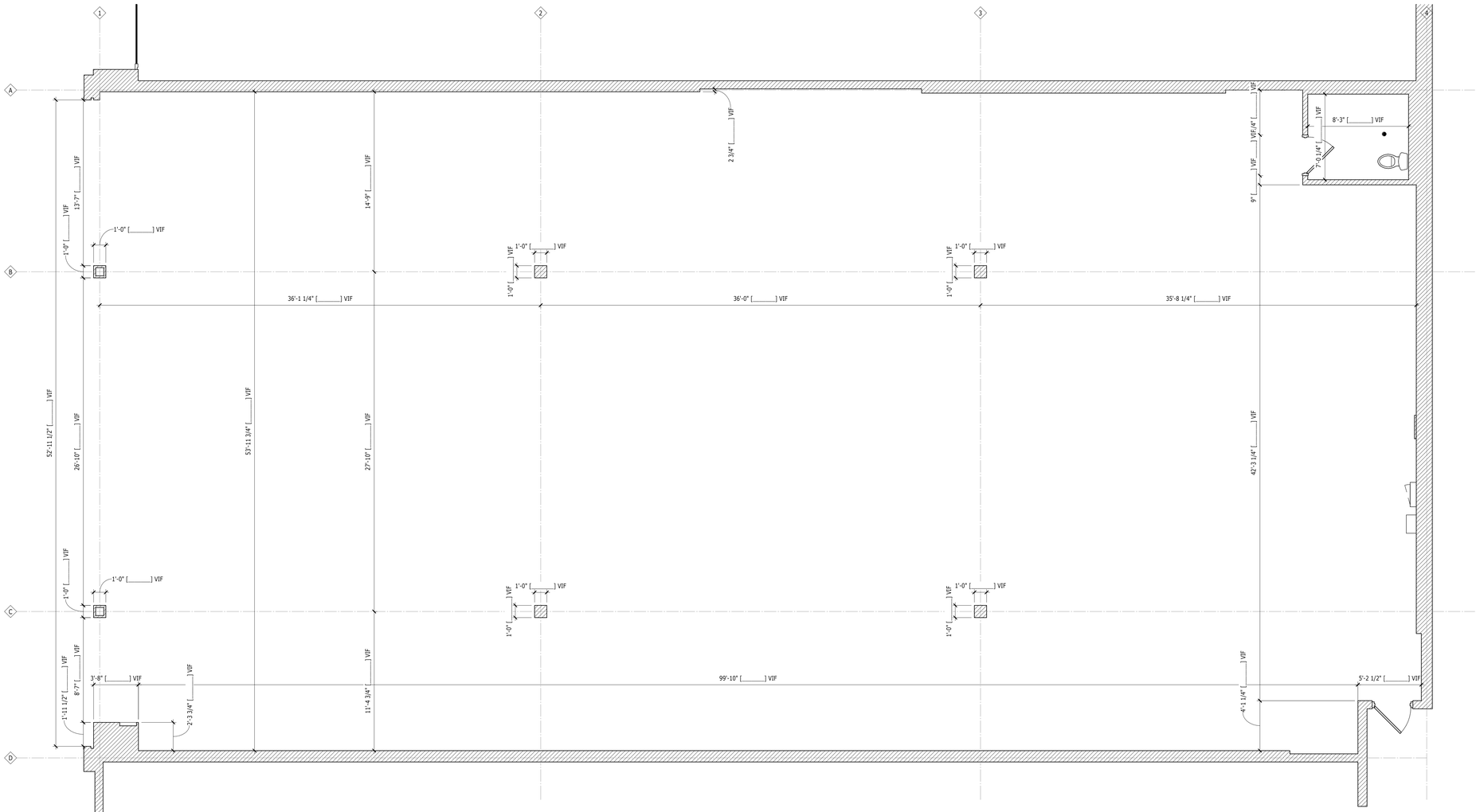
REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912176
STATE OF ARKANSAS

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

FINISH SCHEDULE, DOOR SCHEDULE, & NOTES

IS5.0



1 IS6.0 **SITE VERIFICATION PLAN**
SCALE: 1/4" = 1'-0"

VERIFY HEIGHT & LOCATION OF ANY BUILDING OR MALL SYSTEM IN NEW TENANT SPACE, INCLUDING OBSTRUCTIONS AND ANY CONTROLS OR ACCESS REQUIREMENTS

SHOW LOCATIONS AND BOTTOM OF ANY OBSTRUCTIONS BELOW 14'-0" AFF

SITE VERIFICATION NOTES

1. BEFORE CONSTRUCTION OF THE TENANT FIT-UP, CONFIRM AND NOTE INDICATED DIMENSIONS OF TENANT SEPARATION PARTITIONS AND COLUMN LOCATIONS.
2. SUBMIT A COPY OF THE COMPLETED 'SITE VERIFICATION PLAN - TO THE PROJECT MANAGER WITHIN 5 DAYS OF CONSTRUCTION START DATE
3. [_____] FIELD DIMENSION BOX
4. ——— · ——— · ——— LEASE LINE
5. UPON INITIAL SITE VISIT, VERIFY ALL EXISTING CONDITIONS (I.E. OVERALL DIMENSIONS, CONDITION OF CONCRETE SLAB, LOCATION OF SERVICES, STRUCTURE, CLEARANCES, ETC.) AND REPORT ANY DISCREPANCIES, OMISSIONS, OR OBSTRUCTIONS THAT WILL AFFECT THE LAYOUT OR DESIGN OF THE SPACE IMMEDIATELY TO THE TENANT REPRESENTATIVE.
6. G.C. TO VERIFY ALL FLOOR ELEVATIONS AND REPORT ANY POTENTIAL VARIANCE FROM THESE PLANS.
7. REPORT ALL ITEMS TO REMAIN BELOW 14'-0" TO PROJECT MANAGER AND SHOW GRAPHICALLY ON DRAWING.
8. IDENTIFY ALL EXISTING ELECTRICAL BOXES.
9. ——————⚡ FLOOR ELEVATION
10. — — — — — —⚡ DECK ELEVATION
11. G.C. REQUIRED TO SUBMIT ELECTRICAL METER NUMBER WITH SITE VERIFICATION PLAN.
12. INVESTIGATE DEMISING WALL TO CONFIRM TYPE AND SIZE OF METAL STUDS TO ENSURE ADEQUATE SUPPORT FOR WALL PANEL SYSTEM. PROVIDE EXISTING DUCT LAYOUT, INCLUDING DUCT SIZES

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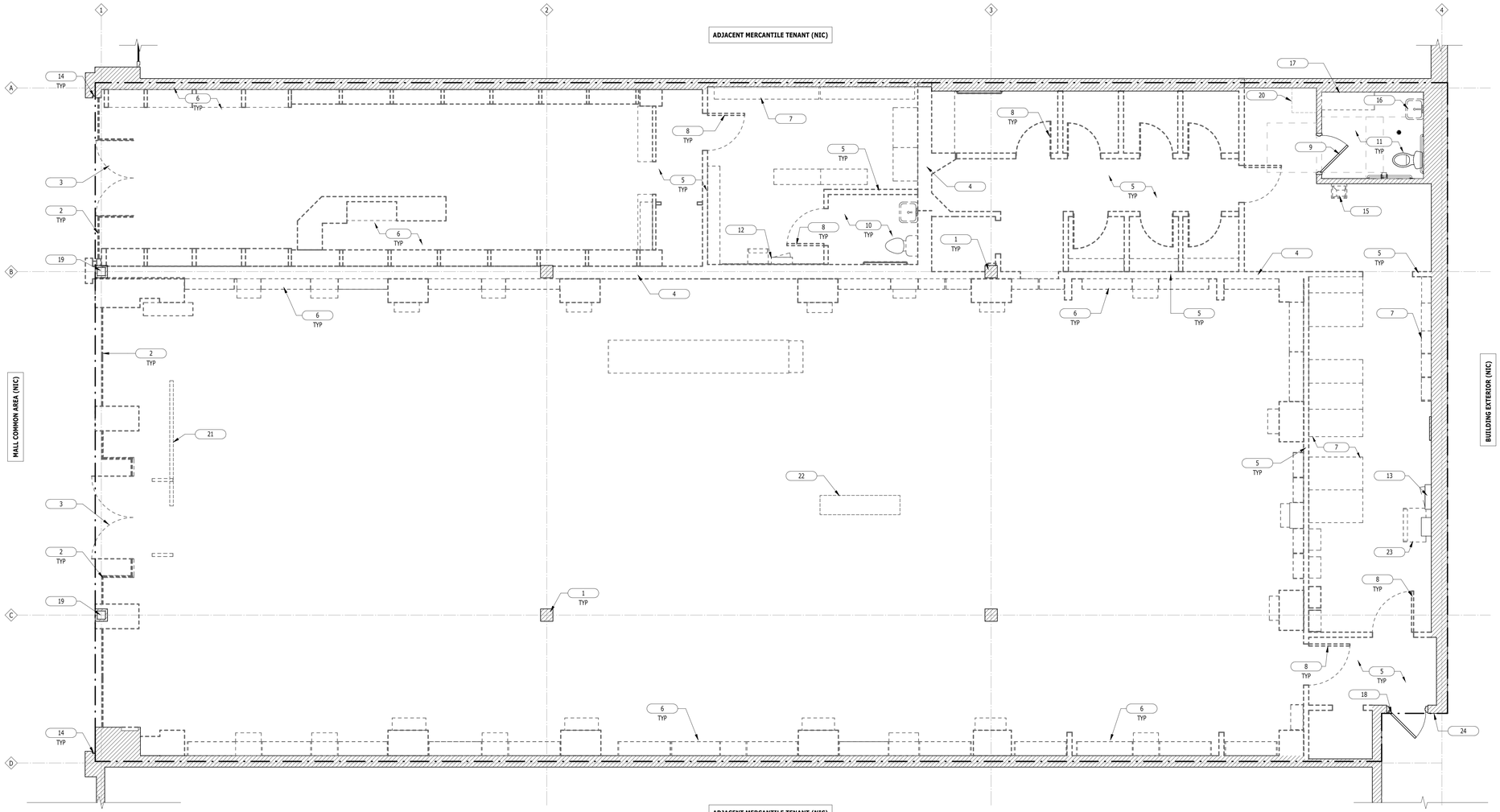
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SITE VERIFICATION PLAN

IS6.0



1 / D1.0 DEMOLITION FLOOR PLAN

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

DEMOLITION PLAN KEYNOTES

1	EXISTING BUILDING COLUMN AND SURROUNDING BUILDOUTS TO REMAIN, REMOVE ALL EXISTING FINISHES. MAINTAIN ALL EXISTING FIRE RATINGS, ENSURE CONTINUOUS RATING IS PROVIDED. PATCH/REPAIR AND PREPARE SURFACES FOR NEW FINISH.
2	DASHED LINES INDICATE REMOVAL OF EXISTING GLAZING SYSTEM, INCLUDING GLAZING, MULLIONS, DOORS, AND ALL RELATED ACCESSORIES (UNO). PATCH/REPAIR AND PREPARE AREA FOR NEW STOREFRONT INSTALLATION- REFER TO ENLARGED STOREFRONT PLANS AND DETAILS.
3	EXISTING ENRANCE DOOR TO BE REMOVED. PREPARE AREA FOR NEW STOREFRONT/ENTRANCE INSTALLATION.
4	DASHED LINES INDICATE REMOVAL OF EXISTING DEMISING WALL, INCLUDING DOORS, WINDOWS, FINISHES, ELECTRICAL DEVICES, AND ALL RELATED CONSTRUCTION AND ACESSORIES IN THEIR ENTIRETY (UNO) - REFER TO LANDLORD PROVIDED LEASE OUTLINE DRAWING.
5	DASHED LINES INDICATE REMOVAL OF EXISTING PARTITION, INCLUDING DOORS, WINDOWS, FINISHES, ELECTRICAL DEVICES, AND ALL RELATED CONSTRUCTION AND ACESSORIES IN THEIR ENTIRETY (UNO).
6	DASHED LINES INDICATE EXISTING SALES FLOOR FIXTURES, BUILDOUTS, STANDARDS, AND ALL RELATED SUPPORTS, POWER, AND ACCESSORIES TO BE REMOVED IN THEIR ENTIRETY.
7	DASHED LINES INDICATE REMOVAL OF EXISTING BOH STOCK SHELVING AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY. PREPARE SPACE FOR NEW RACKING INSTALLATION - REFER TO FIXTURE PLAN.
8	DASHED LINES INDICATE REMOVAL OF DOOR, FRAME, AND ALL RELATED HARDWARE.
9	
10	DASHED LINES INDICATE REMOVAL OF EXISTING TOILET ROOM FIXTURES AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY (UNO). CAP EXISTING PLUMBING LINES AS REQUIRED - REFER TO PLUMBING DRAWINGS.
11	EXISTING TOILET ROOM FIXTURES TO REMAIN. DEEP CLEAN AND ENSURE ALL FIXTURES ARE IN PROPER WORKING ORDER.
12	DASHED LINES INDICATE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING PANELS, RACEWAYS, CONDUIT, AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY. CUT AND CAP REMAINING SERVICES AS REQUIRED - REFER TO ELECTRICAL DRAWINGS.
13	EXISTING ELECTRICAL PANELS TO REMAIN - REFER TO ELECTRICAL DRAWINGS.
14	EXISTING CONSTRUCTION REVEAL, ALIGN STOREFRONT MATERIALS W/ EDGE OF REVEAL. ABIDE BY ALL TENANT DESIGN CRITERIA.
15	DASHED LINES INDICATE REMOVAL OF EXISTING DRINKING FOUNTAIN. INSTALL NEW ACCESSIBLE DRINKING FOUNTAIN - REFER TO PLUMBING DRAWINGS.
16	EXISTING SINK TO BE RELOCATED, ENSURE SINK MEETS CODE COMPLIANCE. DEEP CLEAN AND ENSURE FIXTURE IS IN PROPER WORKING ORDER - REFER TO PLUMBING DRAWINGS.
17	DASHED LINES INDICATE REMOVAL OF EXISTING TOILET ROOM SHELVES AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY (UNO) - REFER TO PLUMBING DRAWINGS.
18	EXISTING DOOR AND FRAME TO REMAIN - REFER TO DOOR SCHEDULE.
19	EXISTING STOREFRONT COLUMN TO REMAIN. WRAP NEW FASCIA MATERIALS (ACM-1 AND MT-1) AND CONTRUCTION ELEMENTS AS TIGHT AS POSSIBLE TO EXISTING COLUMN. ENSURE ALL EXISTING FIRE RATINGS ARE MAINTAINED.
20	SERVICE SINK TO BE INSTALLED, ENSURE CODE COMPLIANCE - REFER TO PLUMBING DRAWINGS.
21	DASHED LINES INDICATE APPROXIMATE LOCATION FOR SAWCUT OF EXISTING CONCRETE SLAB TO CREATE POWER TRENCH FOR FLOOR MOUNTED EAS PEDESTAL SYSTEM. ABIDE BY ALL LANDLORD CRITERIA FOR DEPTH OF SAWCUT, COMPACTING MATERIALS, WATERPROOFING CONTINUITY, AND DRILLING AND PINNING THE NEW REINFORCED CONCRETE SLAB TO ALIGN WITH EXISTING S.O.G. FIELD VERIFY LOCATION AND EXTENT WITH EQUIPMENT AND FIXTURE REQUIREMENTS.
22	DASHED LINES INDICATE APPROXIMATE LOCATION FOR SAWCUT OF EXISTING CONCRETE SLAB TO CREATE POWER AND DATA TRENCH FOR CASH DESK AND BACKWRAP. ABIDE BY ALL LANDLORD CRITERIA FOR DEPTH OF SAWCUT, COMPACTING MATERIALS, WATERPROOFING CONTINUITY, AND DRILLING AND PINNING THE NEW REINFORCED CONCRETE SLAB TO ALIGN WITH EXISTING S.O.G. FIELD VERIFY LOCATION AND EXTENT WITH EQUIPMENT AND FIXTURE REQUIREMENTS.
23	DESHED LINES INDICATE REMOVAL OF EXISTING LOW VOLTAGE BACKBOARD - REFER TO ELECTRICAL DRAWINGS.
24	EXISTING DOORBELL TO REMAIN. ENSURE IN PROPER WORKING ORDER - REFER TO ELECTRICAL PLANS.

DEMOLITION FLOOR PLAN GENERAL NOTES

A. THE G.C. SHALL BE RESPONSIBLE FOR ALL REMOVAL DESCRIBED ON THIS DRAWING AND ANY OTHER REMOVAL THAT MAY BE DIRECTED, IN WRITING BY THE ARCHITECT, NOT SPECIFICALLY NOTED ON THESE DRAWINGS.
B. THE G.C. SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT & SERVICES. THE G.C. SHALL PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE INTERIOR REMOVALS AND RELATED WORK AS INDICATED AND SPECIFIED HEREIN, AND AS REASONABLY IMPLIED TO COMPLETE THE WORK IN ALL RESPECTS.
C. THE G.C. SHALL REPAIR AT THEIR OWN EXPENSE ANY DAMAGE DONE TO THE OWNER'S PROPERTY, AND ANY OTHER PERSON OR PERSONS ON OR OFF THE PREMISES AS A RESULT OF THE G.C.'S WORK DEFINED HEREIN.
D. SALVAGE: REMOVE, REPAIR, CLEAN & STORE REMOVED ITEMS AS MAY BE DIRECTED FOR RE-USE BY THE ARCHITECT AND/OR OWNER.
E. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND/OR SPRINKLER DRAWINGS FOR ANY ADDITIONAL REMOVAL NOTES.
F. THE G.C. SHALL REMOVE ALL ABANDONED MATERIALS, DEVICES, FIXTURES, PIPES, CONDUITS, WIRES, ETC. FROM PREMISES INCLUDING THE AREA OF THE CEILING PLENUM AND CONNECTION POINTS OUTSIDE OF THE TENANT SPACE. RETURN THE TENANT SPACE TO BASE BUILDING CONDITIONS.
G. WHERE APPLICABLE, THE G.C. SHALL REMOVE ALL EXISTING STORE FIXTURES.
H. THE G.C. SHALL REMOVE ALL EXISTING FINISHED FLOOR MATERIALS DOWN TO THE EXISTING CONCRETE SLAB UNLESS NOTED OTHERWISE.
I. THE G.C. SHALL REMOVE EXISTING FINISHES FROM ALL EXISTING PARTITIONS TO REMAIN.
J. THE G.C. SHALL VERIFY WITH LANDLORD IF FLOOR X-RAYS OR SLAB SCANS ARE REQUIRED, PRIOR TO BID.
K. THE G.C. SHALL REPORT ANY POTENTIAL CONFLICTS WITH EXISTING ITEMS TO REMAIN TO THE TENANT'S CONSTRUCTION PROJECT MANAGER PRIOR TO BID.
L. UPON REMOVAL OF LEASED SPACE, G.C. TO NOTIFY TENANT OF ANY ROOF LEAKS OR DAMAGE UNCOVERED, OR ANY WATER DAMAGE WITHIN THE REMAINDER OF THE SPACE (WALLS AND / OR FLOORS).
M. G.C. TO V.I.F. EXISTING WALLS ARE STRAIGHT / LEVEL & PLUMB. REPORT ISSUES TO CONSTRUCTION PROJECT MANAGER.
N. NO WORK IS TO BE PERFORMED OUTSIDE THE LEASE LINE AS DEFINED BY THE LANDLORD.
O. REPAIR ALL REMOVAL PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO THE OWNER.
P. IF APPLICABLE, TEMPORARY BARRICADE BY BOSTON BARRICADE.
Q. PLACE MARKERS TO INDICATE LOCATIONS OF DISCONNECTED SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATIONS ON PROJECT RECORD DOCUMENTS.
R. CEASE OPERATIONS AND NOTIFY THE OWNER IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE ALL NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE. DO NOT RESUME OPERATIONS UNTIL SAFETY IS RESTORED.
S. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXTENT OF REMOVAL WITH THE OWNER AND THE LANDLORD AND BRING ANY DISCREPANCIES TO BOTH PARTIES ATTENTION PRIOR TO FINALIZING THE BID AND COMMENCEMENT OF WORK.
T. PROVIDE TEMPORARY SERVICES AS NECESSARY FOR CONTINUOUS OPERATION FOR ALL LIFE/SAFETY DEVICES.
U. WHERE THE EXISTING CONCRETE SLAB IS TO BE PATCHED AND REPAIRED, THE GENERAL CONTRACTOR SHALL MAINTAIN ANY EXISTING FIRE RATING OF THE EXISTING SLAB, PATCH WORK TO BE STRUCTURALLY SOUND AND CAPABLE OF SUPPORTING LIVE LOADS FOR MERCANTILE OCCUPANCIES AS PER LOCAL CODES AND JURISDICTION.
V. G.C. TO COORDINATE ALL WORK BELOW SLAB W/ LL & SHALL PATCH & REPAIR ANY/ALL DAMAGE THAT MAY OCCUR DURING REMOVAL WORK.
W. PROTECT ALL ADJACENT SURFACES THAT ARE TO REMAIN DURING REMOVAL. PATCH AND REPAIR ALL DAMAGED ADJACENT SURFACES THAT ARE TO REMAIN AND PREPARE TO RECEIVE NEW FINISH PER ELEVATIONS.
X. REMOVAL INCLUDES CORING/SAW CUTTING OF SLAB FOR ELECTRICAL. COORDINATE WITH ELECTRICAL DRAWINGS FOR NEW CONSTRUCTION. COORDINATE WITH LANDLORD PRIOR TO ANY SLAB WORK. A VAPOR BARRIER MUST BE MAINTAINED.
Y. VERIFY FLOOR IS LEVEL THROUGHOUT. NOTIFY ARCHITECT OF DISCREPANCIES.

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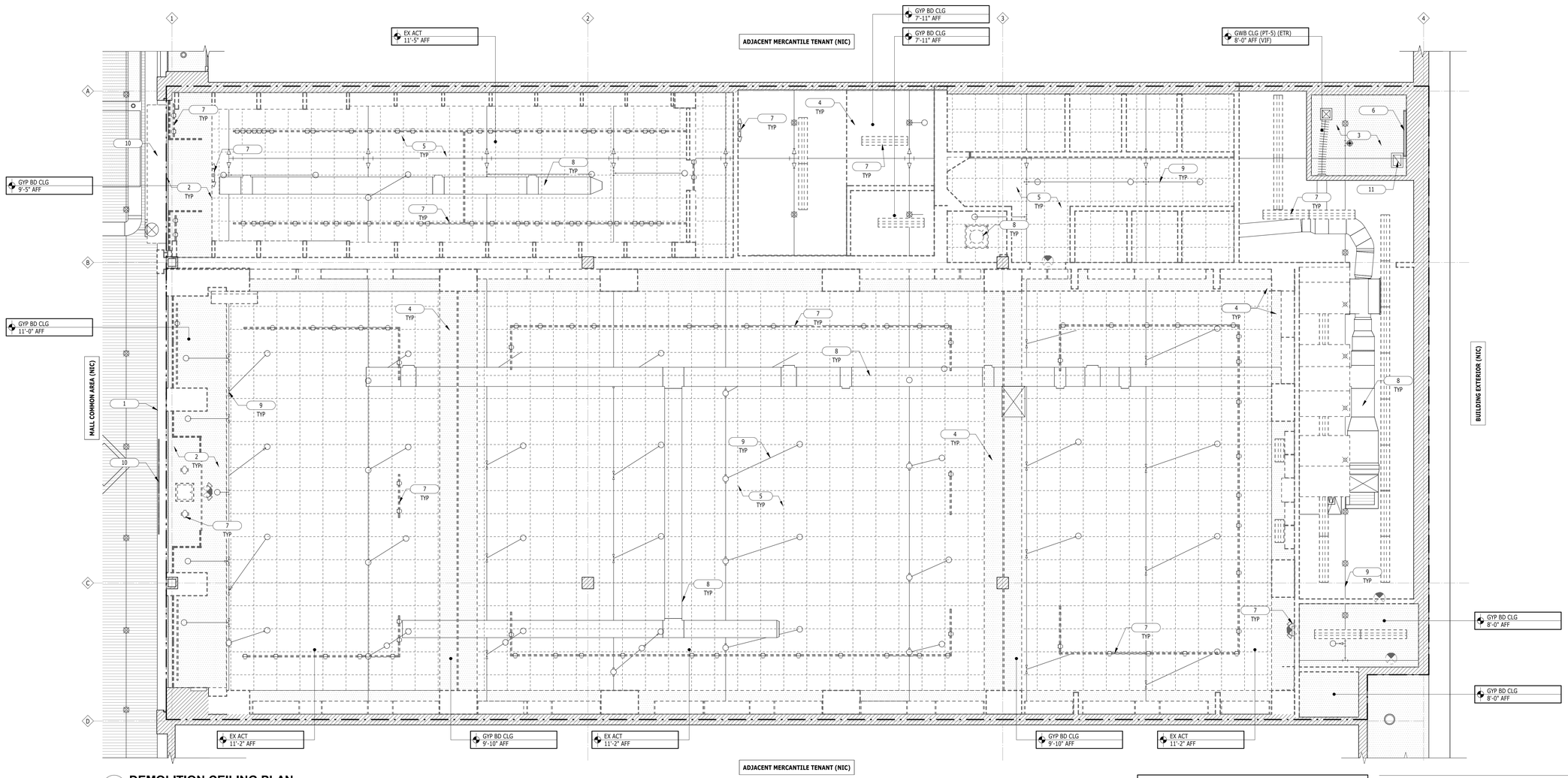
REGISTERED ARCHITECT
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PROJECT NO:	25428
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DEMOLITION FLOOR PLAN

D1.0



1 / D2.0 DEMOLITION CEILING PLAN

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

DEMOLITION CEILING PLAN KEYNOTES

1	EXISTING MALL SOFFIT AND ALL RELATED LIGHTING FIXTURES, EQUIPMENT, AND FINISHES TO REMAIN (VIF).
2	DASHED LINES INDICATE REMOVAL OF EXISTING STOREFRONT BULKHEAD, LIGHT FIXTURES, FINISHES, AND ALL RELATED CONSTRUCTION AND ACESSORIES IN THEIR ENTIRETY (UNO).
3	EXISTING GYPSUM BOARD CEILING AND ALL RELATED ACCESSORIES TO REMAIN WHERE INDICATED. PATCH/REPAIR AND PREPARE SURFACES FOR NEW FINISH - REFER TO FINISH PLAN.
4	DASHED LINES INDICATE REMOVAL OF EXISTING GYPSUM BOARD CEILING, FRAMING, AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY (UNO).
5	DASHED LINES INDICATE REMOVAL OF EXISTING ACOUSTIC CEILING TILE SYSTEM, GRID, AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY (UNO)
6	EXISTING LIGHTING FIXTURE TO REMAIN. CLEAN AND RELAMP AS REQUIRED FOR PROPER FUNCTION - REFER TO ELECTRICAL DRAWINGS.
7	DASHED LINES INDICATS REMOVAL OF EXISTING LIGHT FIXTURE(S) AND ALL RELATED ACCESSORIES - REFER TO ELECTRICAL DRAWINGS.
8	EXISTING HVAC DUCTWORK, DIFFUSERS, AND EQUIPMENT TO REMAIN TO THE GREATEST EXTENT POSSIBLE. REMOVE EXISTING DIFFUSERS AND FLEXIBLE DUCTWORK AS SHOWN ON DEMOLITION CEILING PLAN - REFER TO MECHANICAL DRAWINGS.
9	EXISTING SPRINKLER SYSTEM TO REMAIN.
10	DASHED LINES INDICATE PREVIOUS TENANT SIGNAGE, SUPPORTS, POWER, AND ALL RELATED ACCESSORIES TO BE REMOVED IN THEIR ENTIRETY. PATCH AND REPAIR STOREFRONT SURFACES, PREPARE FOR NEW FINISH - REFER TO STOREFRONT ELEVATIONS.
11	EXISTING EXHAUST FAN AND RELATED DUCTWORK TO REMAIN. DEEP CLEAN AND VERIFY WORKING CONDITION PRIOR TO WORK COMPLETION - REFER TO MECHANICAL DRAWINGS

DEMOLITION CEILING PLAN GENERAL NOTES

A. THE GC SHALL BE RESPONSIBLE FOR ALL DEMOLITION DESCRIBED ON THIS DRAWING AND ANY OTHER DEMOLITION THAT MAY BE DIRECTED, IN WRITING BY THE ARCHITECT, NOT SPECIFICALLY NOTED ON THESE DRAWINGS.
B. THE GC SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT & SERVICES. THE GC SHALL PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE INTERIOR DEMOLITION REMOVALS AND RELATED WORK AS INDICATED AND SPECIFIED HEREIN, AND AS REASONABLY IMPLIED TO COMPLETE THE WORK IN ALL RESPECTS.
C. THE GC SHALL REPAIR AT THEIR OWN EXPENSE ANY DAMAGE DONE TO THE OWNER'S PROPERTY, AND ANY OTHER PERSON OR PERSONS ON OR OFF THE PREMISES AS A RESULT OF THE GC'S WORK DEFINED HEREIN.
D. SALVAGE: REMOVE, REPAIR, CLEAN & STORE REMOVED ITEMS AS MAY BE DIRECTED FOR RE-USE BY THE ARCHITECT AND/OR OWNER.
E. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND/OR SPRINKLER DRAWINGS FOR ANY ADDITIONAL DEMOLITION NOTES.
F. THE GC SHALL REMOVE ALL ABANDONED MATERIALS, DEVICES, FIXTURES, PIPES, CONDUITS, WIRES, ETC. FROM PREMISES INCLUDING THE AREA OF THE CEILING PLENUM AND CONNECTION POINTS OUTSIDE OF THE TENANT SPACE. RETURN THE TENANT SPACE TO BASE BUILDING CONDITIONS.
G. WHERE APPLICABLE, THE GC SHALL REMOVE ALL EXISTING STORE FIXTURES.
H. THE GC SHALL REPORT ANY POTENTIAL CONFLICTS WITH EXISTING ITEMS TO REMAIN TO THE TENANT'S CONSTRUCTION PROJECT MANAGER PRIOR TO BID.
I. UPON DEMOLITION OF LEASED SPACE, GC TO NOTIFY TENANT OF ANY ROOF LEAKS OR DAMAGE UNCOVERED, OR ANY WATER DAMAGE WITHIN THE REMAINDER OF THE SPACE (WALLS AND / OR FLOORS).
J. NO WORK IS TO BE PERFORMED OUTSIDE THE LEASE LINE AS DEFINED BY THE LANDLORD.
K. REPAIR ALL DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO THE OWNER.
L. PLACE MARKERS TO INDICATE LOCATIONS OF DISCONNECTED SERVICES. IDENTIFY SERVICE LINES AND CAPPING LOCATIONS ON PROJECT RECORD DOCUMENTS.
M. CEASE OPERATIONS AND NOTIFY THE OWNER IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE ALL NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE. DO NOT RESUME OPERATIONS UNTIL SAFETY IS RESTORED.
N. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXTENT OF DEMOLITION WITH THE OWNER AND THE LANDLORD AND BRING ANY DISCREPANCIES TO BOTH PARTIES ATTENTION PRIOR TO FINALIZING THE BID AND COMMENCEMENT OF WORK.
O. PROVIDE TEMPORARY SERVICES AS NECESSARY FOR CONTINUOUS OPERATION FOR ALL LIFE/SAFETY DEVICES.
P. PROTECT ALL ADJACENT SURFACES THAT ARE TO REMAIN DURING DEMOLITION. PATCH AND REPAIR ALL DAMAGED ADJACENT SURFACES THAT ARE TO REMAIN AND PREPARE TO RECEIVE NEW FINISH PER ELEVATIONS.

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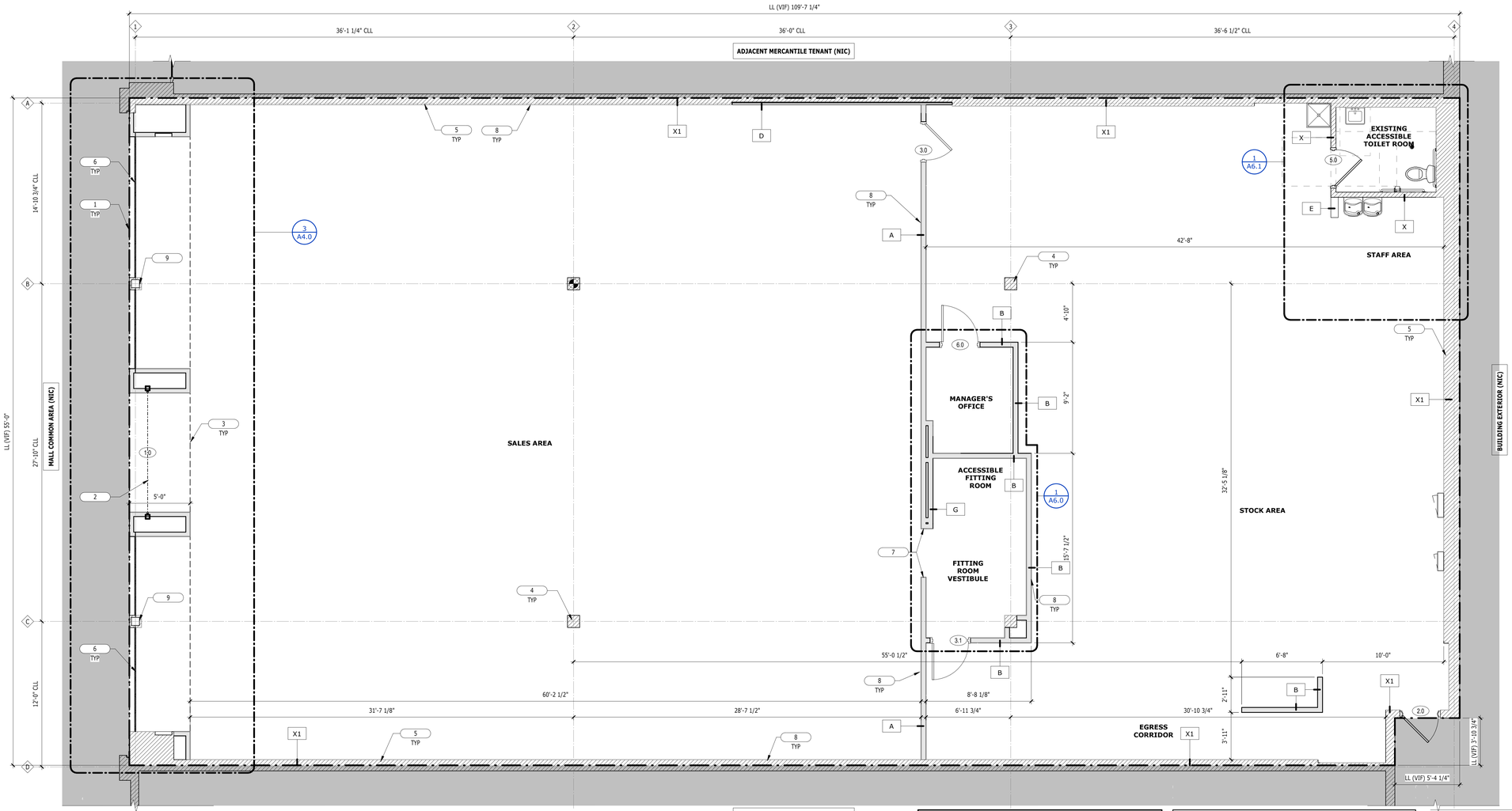
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DEMOLITION CEILING PLAN

D2.0



1 A1.0 CONSTRUCTION PLAN

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

PARTITION SCHEDULE

REFER TO SHEET **A1.1** FOR DETAILS

PARTITION TYPE	CONSTRUCTION
A	3-5/8" METAL STUDS & GWB TO B/O DECK.
A1	1-HR FIRE RATED WALL W/ 3-5/8" METAL STUDS & GWB TO B/O DECK.
B	3-5/8" METAL STUDS TO B/O DECK. PARTIAL HEIGHT GWB.
B1	3-5/8" METAL STUDS TO B/O CEILING W/ PARTIAL HEIGHT GWB.
C	3-5/8" METAL STUDS & GWB TO B/O FINISHED CEILING.
D	FURRING WALL W/ 3-5/8" METAL STUDS & GWB TO B/O CEILING.
D1	FURRING WALL W/ 3-5/8" METAL STUDS & GWB TO B/O DECK.
E	PARTIAL HEIGHT WALL W/ 6" METAL STUDS & GWB
F	1-HR FIRE RATED CHASE WALL W/ 3-5/8" METAL STUDS & GWB TO B/O DECK.
G	3-5/8" METAL STUDS & GWB TO B/O DECK WITH RECESS FOR DIGITAL SCREENS.
X	EXISTING WALL ASSEMBLY TO REMAIN. G.C. TO PATCH AND REPAIR AS REQUIRED.
X1	EXISTING DEMISING WALL TO REMAIN. ANY EXISTING FIRE RATING TO BE MAINTAINED. G.C. TO PATCH AND REPAIR AS REQUIRED.
X2	EXISTING WALL ASSEMBLY TO BE EXTENDED TO B/O DECK. NEW CONSTRUCTION TO MATCH EXISTING ASSEMBLY.

- NOT ALL TYPES ARE UTILIZED PER PROJECT.
- ALL GYPSUM BOARD (NEW AND EXISTING) TO MAINTAIN / ACHIEVE LEVEL 4 FINISH PER GYPSUM ASSOCIATION GA-214-96 (UNLESS NOTED OTHERWISE)

CONSTRUCTION PLAN KEYNOTES

1	LEASE LINE.
2	MANUAL ROLLING GRILLE TO BE INSTALLED AT STOREFRONT SOFFIT. CONCEAL ROLLING GRILLE HOUSING AND MOTOR WITHIN SOFFIT ABOVE - REFER TO ENLARGED STOREFRONT DETAILS.
3	LINE OF NEW BULKHEAD ABOVE.
4	EXISTING BUILDING COLUMN AND SURROUNDING BUILDOUTS TO REMAIN, REMOVE ALL EXISTING FINISHES. MAINTAIN ALL EXISTING FIRE RATINGS, ENSURE CONTINUOUS RATING IS PROVIDED. PATCH/REPAIR AND PREPARE SURFACES FOR NEW FINISH.
5	EXISTING DEMISING WALL TO REMAIN. REMOVE EXISTING FINISHES, PATCH/REPAIR AND PREPARE SURFACES FOR NEW FINISH. MAINTAIN ANY EXISTING FIRE RATINGS (TYP).
6	GLAZING AND FRAME SYSTEM INSTALLED AT STOREFRONT. SPECIFICATION TO BE APPROVED BY PROJECT MANAGER - REFER TO GLAZING THICKNESS CHART.
7	FINISHED GYP. BD. OPENING AT 9'-2" AFF. PREPARE SURFACES FOR VINYL WALL COVERING - REFER TO FINISH PLAN AND SHCEDULE.
8	PROVIDE CONCEALED FR PLYWOOD SHEATHING, WOOD BLOCKING, AND/OR METAL STRAPPING AT ALL NEW AND EXISTING WALLS AND/OR PARTITIONS THAT RECEIVE PERIMETER POSTS - REFER TO FIXTURE PLAN..
9	EXISTING STOREFRONT COLUMN TO REMAIN. WRAP NEW FASCIA MATERIALS (ACM-1 AND MT-1) AND CONTRUCTION ELEMENTS AS TIGHT AS POSSIBLE TO EXISTING COLUMN. ENSURE ALL EXISTING FIRE RATINGS ARE MAINTAINED.

CONSTRUCTION PLAN GENERAL NOTES

A. THE GC SHALL FIELD VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO THE OWNER ANY DISCREPANCIES AND/OR OMISSIONS WHICH COULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK HEREIN.
B. PROVIDE IN WALL STUD BLOCKING. REFER TO INTERIOR ELEVATIONS. ALL WOOD, WOOD BLOCKING, AND/OR MDF OTHER THAN FINISHED WOOD TRIM SHALL BE FIRE RETARDANT TREATED.
C. ALL METAL STUD PARTITIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
D. REFER TO FINISH SCHEDULE AND COLOR LEGEND ON IS6.0 FOR FINISH NOTES AND ADDITIONAL REQUIREMENTS.
E. REFER TO ENLARGED PLANS AND ELEVATIONS FOR ADDITIONAL REQUIREMENTS.
F. ROLL-DOWN ROLLING GRILLES SHALL REMAIN IN OPEN POSITION DURING HOURS OF OPERATION.
G. SEE SHEET A1.1 FOR WALL TYPES.
H. GC SHALL ENSURE AN EMERGENCY RELEASE LATCH IS FURNISHED WITH ROLL-DOWN ROLLING GRILLE AT ENTRY. THE RELEASE SHALL CONFIRM TO ALL APPLICABLE CODES AND GENERAL HARDWARE NOTES.
I. GC TO VIF EXISTING WALLS ARE STRAIGHT / LEVEL & PLUMB. REPORT ISSUES TO CONSTRUCTION PROJECT MANAGER.
J. THE GC SHALL PATCH & REPAIR ALL EXISTING SURFACES AS NECESSARY BEFORE APPLYING NEW FINISHES. ALL SOFT, POROUS, FLAKING OR OTHERWISE DEFECTIVE FINISHES SHALL BE REMOVED BEFORE APPLICATION OF NEW MATERIALS. OPENINGS, VOIDS, OR UNFINISHED SURFACES CREATED BY REMOVAL OR MODIFICATION OF EXISTING WORK SHALL BE FILLED OR PATCHED & FINISHED AS NECESSARY TO MATCH EXISTING CONDITIONS FOR NEW FINISHES REQ. SPECIFICALLY, FLOOR SURFACES AT ENTRY SHALL BE LEVELED TO ASSURE SMOOTH SURFACE TRANSITION BETWEEN EXISTING & NEW FLOOR FINISH MATERIALS.
K. PROVIDE METAL STRAPPING OR F.R. WOOD BLOCKING FOR ALL SIGNS, HOOKS, TOILET ROOM ACCESSORIES & ANY OTHER WALL MOUNTED EQUIPMENT. COORDINATE ALL BLOCKING REQUIREMENTS NECESSARY FOR MILLWORK W/ MILLWORK VENDOR.
L. DIMENSIONS ARE FROM FACE OF GYPSUM WALL BOARD OR CENTERLINE OF COLUMN. ALL ELEVATIONS ARE FROM FINISH FLOOR ELEVATION.
M. MINIMUM DIMENSION FROM ANY CORNER OR WALL TO FRAMING STUD AT DOOR JAMB OPENING SHALL BE 4" (UNO).
N. PROVIDE DRYWALL TRIM AT ALL EXPOSED EDGES AND CORNERS.
O. COORDINATE POWER REQUIREMENTS WITH FIXTURE VENDOR.
P. GC TO FIELD VERIFY LEASE LINE DIMENSIONS AFTER DEMOLITION AND PRIOR TO FRAMING. IF ANY DISCREPANCIES, GC TO NOTIFY PROJECT MANAGER IMMEDIATELY.

SQUARE FOOTAGES

DEPARTMENT	AREA	%
SALES AREA	3,453 SF	61.24%
BACK OF HOUSE (STOCK)	1,646 SF	29.19%
BACK OF HOUSE (ANCILLARY)	540 SF	9.58%
TOTAL	5,638 SF	

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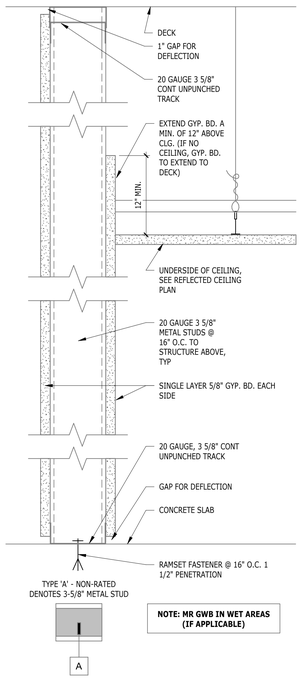
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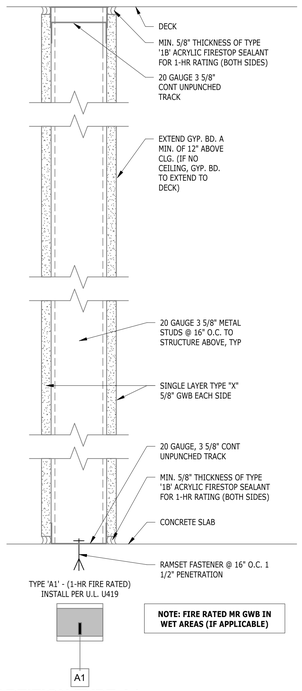
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CONSTRUCTION PLAN

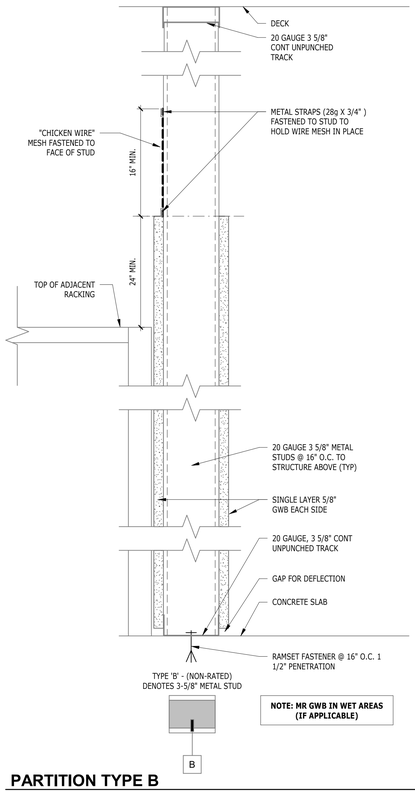
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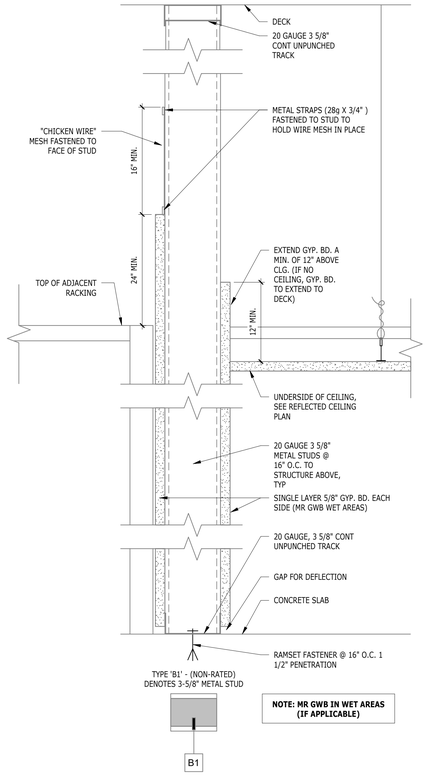
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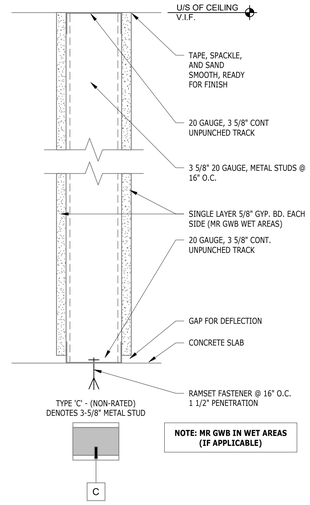
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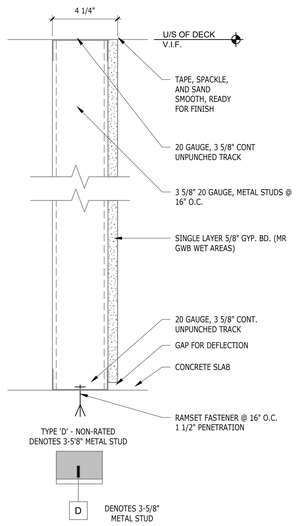
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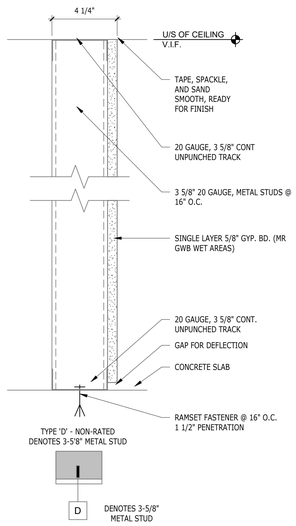
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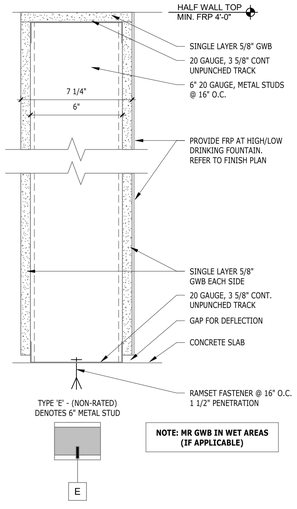
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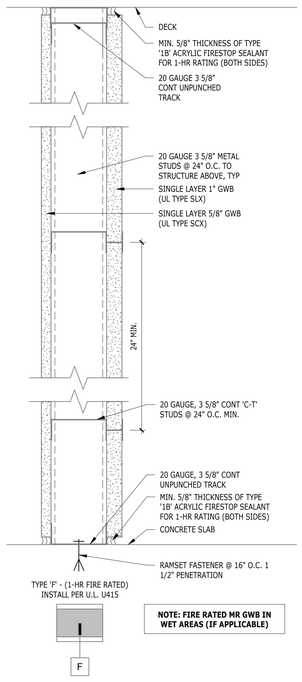
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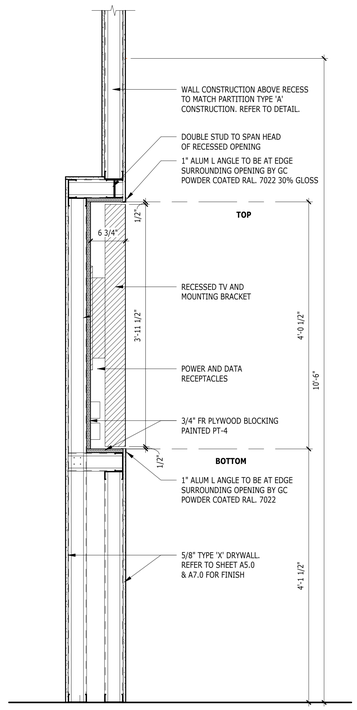
PARTITION TYPE D



PARTITION TYPE E



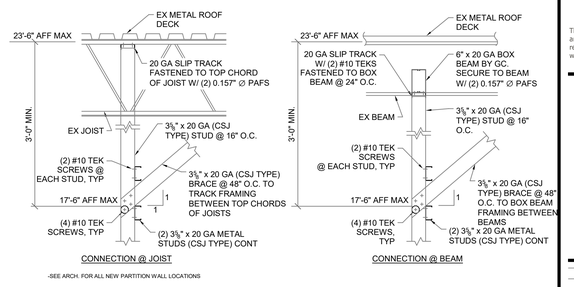
PARTITION TYPE F



PARTITION TYPE G

INTERIOR PARTITION WALL SCHEDULE
LIGHT GAUGE NON-LOAD BEARING

STUD SIZE	STUD GAUGE	STUD SPACING	UNBRACED HEIGHT RANGE	MAXIMUM BRACED HEIGHT RANGE
3 5/8"	20 GAUGE	16" OC	<17'-6"	17'-7" - 23'-6"
3 5/8"	18 GAUGE	16" OC	17'-7" - 19'-0"	19'-1" - 25'-0"
3 5/8"	16 GAUGE	16" OC	19'-1" - 20'-6"	20'-7" - 26'-6"
6"	20 GAUGE	16" OC	<26'-0"	26'-1" - 33'-0"
6"	18 GAUGE	16" OC	26'-1" - 28'-3"	28'-4" - 35'-3"
6"	16 GAUGE	16" OC	28'-4" - 30'-4"	30'-5" - 37'-4"



-SEE ARCH. FOR ALL NEW PARTITION WALL LOCATIONS

FULL HEIGHT WALL BRACING DETAIL

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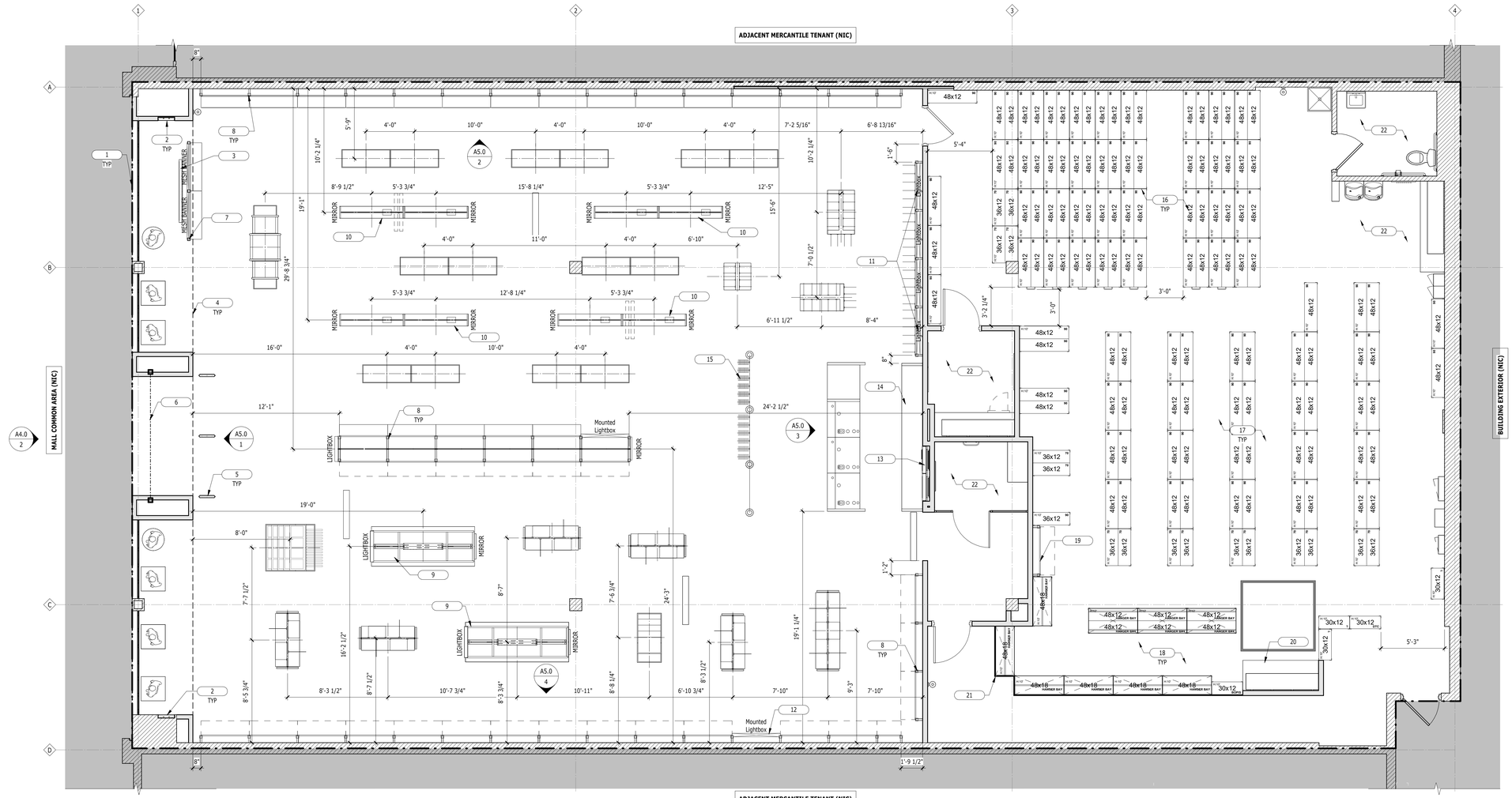
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PARTITION TYPES

A1.1



1 A2.0 FIXTURE PLAN

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

FIXTURE PLAN KEYNOTES

1	LEASE LINE.
2	RECESSED YELLOW ILLUMINATED BOX - 2 BAR WITH BLACK METAL CHANNEL AND ACRYLIC FACE @ 60" L. (MAX) x 16 9/16" W. x 3 3/8" D.
3	LED DIGITAL SCREEN SUSPENDED VIA THREADED ROD FROM BULKHEAD ABOVE. PROVIDE BLOCKING WITHIN BULKHEAD AND FLOOR MOUNTED SUPPORTS AS REQUIRED FOR SECURE ATTACHMENT. VINYL GRAPHIC APPLIED TO REAR OF FIXTURE - REFER TO ELECTRICAL DRAWINGS.
4	LINE OF NEW BULKHEAD ABOVE.
5	EAS PEDESTALS AT STOREFRONT ENTRANCE - REFER TO VENDOR DRAWINGS FOR FINAL LOCATION AND POWER REQUIREMENTS. 6'-0" (MAX) SPACING BETWEEN FIXTURES. COMPLY WITH ALL TENANT DESIGN CRITERIA.
6	MANUAL ROLLING GRILLE TO BE INSTALLED AT STOREFRONT SOFFIT. CONCEAL ROLLING GRILLE HOUSING AND MOTOR WITHIN SOFFIT ABOVE - REFER TO ENLARGED STOREFRONT DETAILS.
7	PROVIDE FLOOR TO CEILING POST TO B/O OF CEILING ABOVE. PROVIDE CONCEALED BLOCKING WITHIN BULKHEAD AND/OR CEILING ABOVE.
8	TYPICAL PERIMETER POST AT 9'-10 1/8" AFF. PROVIDE CONCEALED FR PLYWOOD SHEATHING, WOOD BLOCKING, AND/OR METAL STRAPPING AT 9'-9 3/8" AND 3'-7".
9	2 BAY MOVEABLE CENTER WALL W/ SPLIT BASE. LIGHTBOX AND MIRROR TO BE INSTALLED AS INDICATED. POWER TO BE SUPPLIED FROM ABOVE VIA BLACK CURLY WIRE, PROVIDE TWIST LOCK - REFER TO ELECTRICAL DRAWINGS.
10	FLIGHTCASE FIXTURE. LIGHTBOX AND MIRROR TO BE INSTALLED AS INDICATED. POWER REQUIRED FROM ABOVE VIA POLE CONDUIT - REFER TO ELECTRICAL DRAWINGS.
11	ACCESSORIES LIGHTBOX ATTACHED TO REAR OF PERIMETER POSTS - REFER TO ELECTRICAL DRAWINGS.
12	HOOK-ON LIGHTBOX ATTACHED TO FRONT OF PERIMETER POSTS - REFER TO ELECTRICAL DRAWINGS.
13	RECESSED DIGITAL SCREEN PROVIDED AT REAR CASHDESK WALL - REFER TO ENLARGED DIGITAL SCREEN PLAN AND DETAILS.
14	ACCESSIBLE CASHWRAP AND BACKWRAP COUNTERS - REFER TO ELECTRICAL DRAWINGS AND INTERIOR ELEVATIONS.
15	MESH QUEUE BARRIERS.
16	BOH ROLLER RACKING SYSTEM, ALL HEIGHTS AS NOTED. ENSURE ALL REQUIRED CLEARANCES ARE MET - REFER TO VENDOR DRAWINGS.
17	BOH STOCK RACKING, ALL HEIGHTS AS NOTED. ENSURE ALL REQUIRED CLEARANCES ARE MET - REFER TO VENDOR DRAWINGS.
18	3-TIER APPAREL RACKING, ALL HEIGHTS AS NOTED. ENSURE ALL REQUIRED CLEARANCES ARE MET - REFER TO VENDOR DRAWINGS.
19	METAL STORAGE SYSTEM. TYPICAL PERIMETER POST AT 9'-10 1/8" AFF. PROVIDE HIGH BLOCKING AT 9'-9 3/8" AND LOW BLOCKING AT 3'-7".
20	RECEIVING DESK EQUIPPED W/ WALL MOUNTED COMMUNICATIONS CABINET AND STANDARD SHELVING ABOVE - REFER TO ENLARGED RECEIVING DESK ELEVATIONS AND ELECTRICAL DRAWINGS.
21	MASONITE OR PLYWOOD BACKING TO SECURELY ANCHORED TO REAR OF SHELVING UNIT IN ORDER TO PROVIDE SEPEATION OF EGRESS CORRIDOR.
22	ANCILLARY AREA STANDARDS, FURNITURE, EQUIPMENT, AND ALL RELATED ACCESSORIES (UNO) - REFER TO ENLARGED PLANS AND DETAILS.

FIXTURE PLAN GENERAL NOTES

A. PRIOR TO FIXTURE INSTALLATION, REFER TO THE FIXTURE HANDBOOK FOR INFORMATION ON ASSEMBLY OF THE FIXTURES. IF THE HANDBOOK IS NOT AVAILABLE, CALL THE TENANT'S CONSTRUCTION PROJECT MANAGER (SEE COVER SHEET) FOR A REPLACEMENT.
B. INSTALL THE PERIMETER WALL UNITS BY FIRST TAKING THE HIGH POINT OF THE FLOOR AND SETTING THE CONTROL LINE.
C. GC SHALL PLACE ALL FLOOR FIXTURES IN ACCORDANCE WITH PLAN TO ENSURE ACCESSIBILITY AND CLEAR EGRESS ROUTES, LEVEL IN PLACE, AND ALL DAMAGED / MISSING LEVELERS TO BE REPLACED.
D. FREE STANDING FLOOR FIXTURES SHALL BE PLACED TO ALLOW A 44" SPACING.
E. G.C. TO VERIFY IN-WALL BLOCKING REQUIREMENTS FOR WALL FIXTURE INSTALLATION w/ FIXTURE VENDOR.
F. STORE DISPLAY FIXTURES ARE FURNISHED SEPARATELY BY OWNER AND INSTALLED BY GC.
G. FURNITURE TO BE PURCHASED BY OWNER AND INSTALLED BY GC.
H. GC TO RECEIVE AND VERIFY QUANTITIES AND ANY DAMAGE UPON RECEIPT. GC TO NOTIFY OWNER IMMEDIATELY OF ANY DISCREPANCIES OR DAMAGE. IF CONTRACTOR HASN'T DOCUMENTED AND NOTIFIED OWNER OF ANY DAMAGES WITHIN 24 HRS. GC TO BE RESPONSIBLE FOR REPLACEMENT AND TRANSPORTATION.
I. REFER TO LIGHT BOX INSTALLATION MANUAL FOR OWNER PROVIDED GC INSTALLED LIGHT BOXES. ALL LIGHT BOXES SHOWN ON PLANS ARE INSTALLED BY GC.
J. GC TO CAULK AROUND EDGES OF ALL LIGHTBOXES AND ILLUMINATED PORTAL FIXTURE TO PREVENT ANY LIGHT LEAKS. COORDINATE CAULK COLOR AND SPEC WITH OWNER'S PROJECT MANAGER.
K. ALL POSTS WILL BE DELIVERED 10'-6" HIGH. ANY ALTERNATE HEIGHTS WILL NEED TO BE CUT DOWN ONSITE BY THE GC.
L. ALL DIMS TO BE VERIFIED IN FIELD PRIOR TO MANUFACTURE.
M. FOR NEW WALLS, PATTRESS 3/4" PLY WITH 20 MM CHAMFER TO BE CONCEALED WITHIN WALLS WHERE POSSIBLE.
N. WHEN RETAINING EXISTING WALLS PATTRESS TO BE PLACED CENTRALLY TO POST WALL FIXING POINT ABOVE AND BELOW. TO BE SECURELY FIXED AND PAINTED TO MATCH PROPOSED LOCAL FINISH.

REFER TO FIXTURE LEGEND LOCATED ON SHEET IS4.0 FOR ADDITIONAL INFORMATION REGARDING SALES FLOOR FIXTURES

PERIMETER FIXTURE POSTS

(VERIFY W/ TENANT PROJECT MANAGER)

COLOR	HEIGHT	QUANTITY
Clear Lacquer	<varies>	115

JD

#1519

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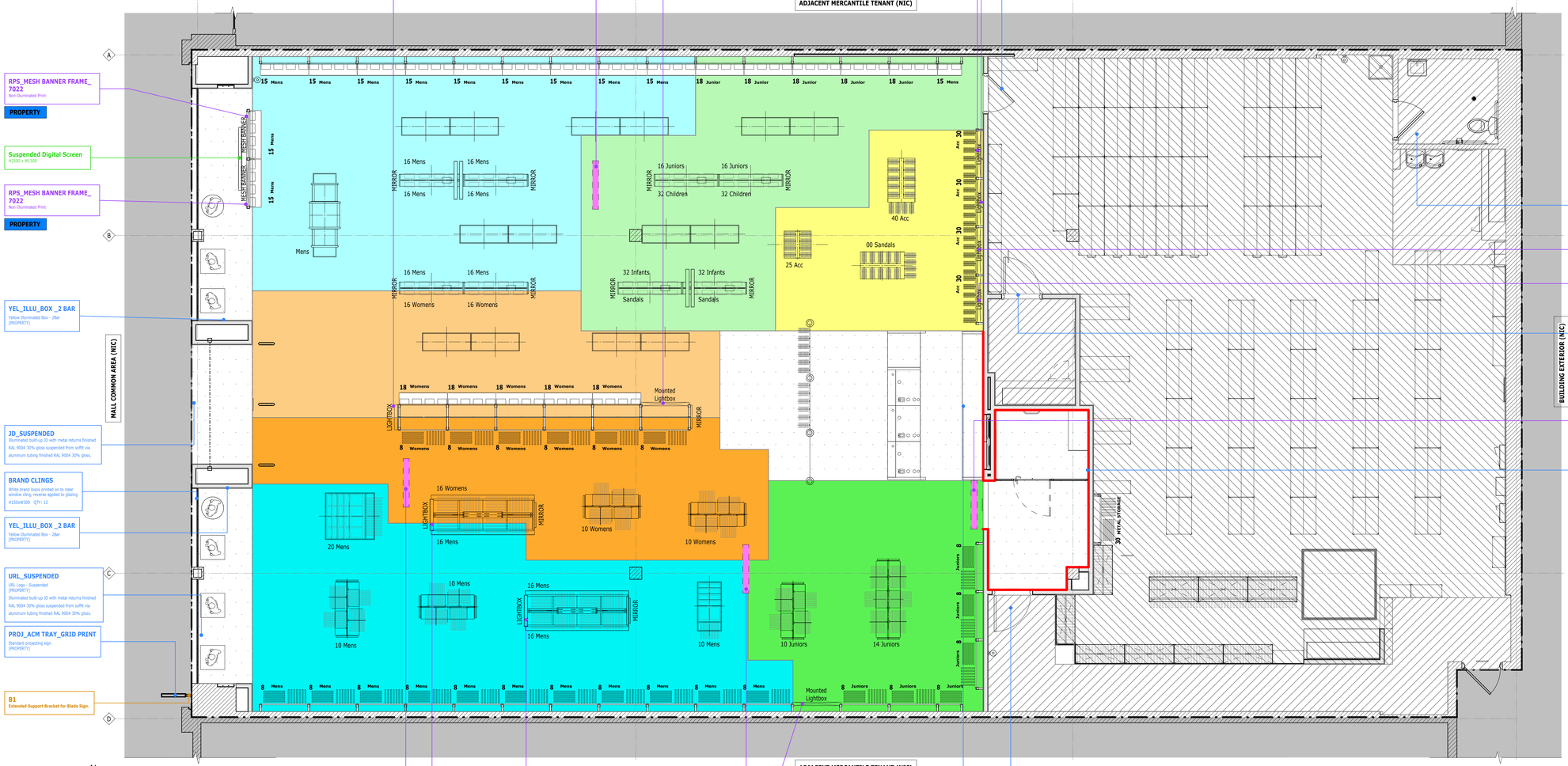
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REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912178
STATE OF ARKANSAS

REVISION DATES	
12/05/2025	
ORIGINAL ISSUE DATE	
PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

FIXTURE PLAN

A2.0



FOR JD SPORTS REFERENCE ONLY

JUST LANDED FIXTURE SCHEDULE

FIXTURE DESCRIPTION	RPS DESCRIPTION	DRAWING NUMBER	NOTES
	FOOTWEAR FLOOR DISPLAY UNIT - MESH SET PANEL	FW71_TICL	Queue Barrier Panel
	FOOTWEAR FLOOR DISPLAY UNIT - POSTS	FW72_TICL	Queue Barrier Posts
40 Accessories	MESH MID FLOOR ACCESSORIES GONDOLA - JL CL BASE	FM31_JL_CL	Accessory T-Stand - Mesh
25 Acc	MESH MID FLOOR FOOTWEAR GONDOLA - JL CL BASE	FM33_JL_CL	Accessory I-Stand
	MESH FLIGHT CASE LARGE - INC POWER AND DATA (4no Power / Kettle and 2no Data Sockets in the top)	FM0 _TICLM_DATA	Mesh Flight Case - 1 Meter - Clear Lacquer
FX-02	MESH FLIGHT CASE SMALL - 2no Power / Kettle sockets in the top	FM02_TICLM	Mesh Flight Case - 1/2 Meter - Clear Lacquer
Mens	MESH TASTER TABLE FOOTWEAR CL	FM77_JL_CL	Taster Table - Clear Lacquer
Womens	MESH TASTER TABLE FOOTWEAR WOMENS LG	FM77_JL_LG	Taster Table - Light Grey
Mens	TABLE NEST FOOTWEAR CL (Half / Full set available)	FM78_JL_CL	Nest Table - Clear Lacquer
Womens	TABLE NEST FOOTWEAR WOMENS LG (Half / Full set available)	FM78_JL_LG	Nest Table - Light Grey
Juniors 16 / Lightbox / FX-05 / Mens 16	2 BAY MCW - MENS/JUNIOR ALL GRADES	AM90_JL_CL	MCW - 2 Meter - Clear Lacquer
24 Mens / FX-03 / 24 Juniors	3 BAY MCW - MENS/JUNIOR ALL GRADES	AM92_JL_CL	MCW - 3 Meter - Clear Lacquer
Womens 16 / Lightbox / FX-05 / Womens 16	2 BAY MCW - WOMENS ALL GRADES LG	AM71_JL_LG	MCW - 2 Meter - Light Grey
24 Womens / FX-03 / 24 Womens	3 BAY MCW - WOMENS ALL GRADES LG	AM72_JL_LG	MCW - 3 Meter - Light Grey
Womens 16 / Lightbox / FX-05 / Mens 16	2 BAY MCW - SPLIT GENDER ALL GRADES	AM73_JL_SG	MCW - 2 Meter - Split

FIXTURE DESCRIPTION	RPS DESCRIPTION	DRAWING NUMBER	NOTES
24 Mens / Lightbox / FX-03 / 24 Womens	3 BAY MCW - SPLIT GENDER ALL GRADES	AM74_JL_SG	MCW - 2 Meter - Split
4 Mens / LOW LEVEL / 4 Juniors	LOWE LEVEL CAGE MENS - HEX	AM97_JL_CL	
10 Mens	1200 GONDOLA MENS/JUNIOR (INC 7 BACK BARS)	AM93_JL_CL	1200 Gondola - Clear Lacquer
14 Mens	1800 GONDOLA MENS/JUNIOR (INC 7 BACK BARS)	AM94_JL_CL	1800 Gondola - Clear Lacquer
6 Womens	WOMENS A-FRAME RAIL INC GRAPHIC HOLDER - LG	AM76_JL_LG	
FX-16 / 6 Womens	WOMENS CURVED RAIL WITH PLINTH INC GRAPHIC HOLDER - LG	AM77_JL_LG	
10 Womens	WOMENS GONDOLA INC GRAPHIC HOLDER - LG	AM79_JL_LG	
20 Womens	TWO FOR UNIT MENS - 4 WIDE - SINGLE SIDED - HEX	AM98_JL_CL	
10 Mens	TWO FOR UNIT MENS - 2 WIDE - SINGLE SIDED - HEX	AM99_JL_CL	
	FOOTWEAR BENCH SEAT SKINNY SMALL	FW106_JL_CL	SLIM BENCH
	WOMENS FOOTWEAR BENCH SEAT PINK	FW125_JL_LG	Oval bench
MSP	MOBILE SERVICE POINT (MSP)		
Non-Digital	DIGITAL PODIUMS	FM28_T1	
Digital	NON DIGITAL PODIUM	FM27_T1	

*Not all fixtures may be used.

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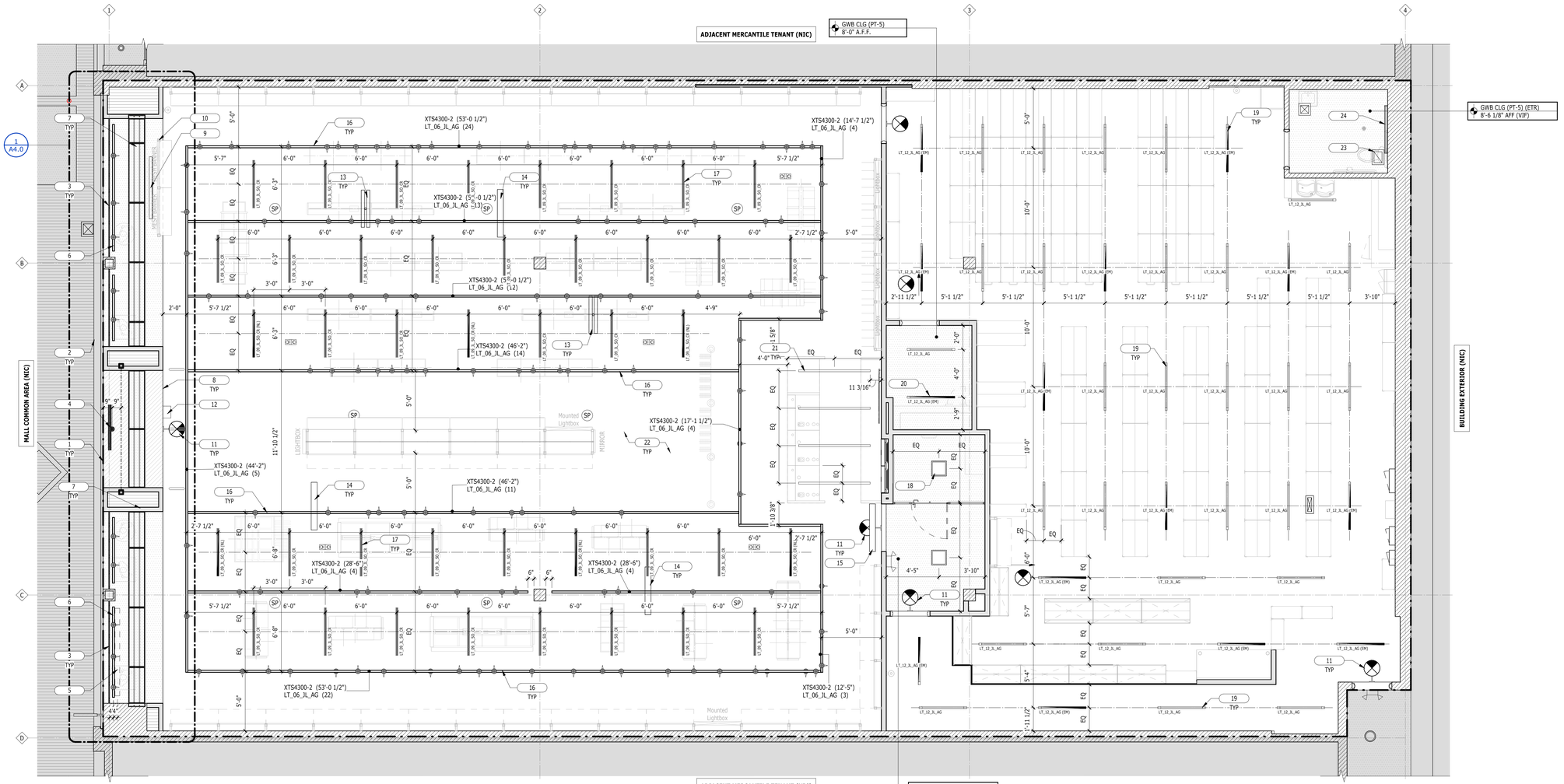
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DRAWN BY:	
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MERCHANDISING PLAN

A2.1



1 REFLECTED CEILING PLAN
A3.0 SCALE: 1/4" = 1'-0"

CEILING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	HVAC SUPPLY / HVAC RETURN, REFER TO MECHANICAL DRAWINGS
EF	EXHAUST FAN, REFER TO MECHANICAL DRAWINGS
X2 X2 X2	ILLUMINATED EXIT SIGN WITH 6" HIGH ILLUMINATED LETTERS AND LISTED/LABELED IN ACCORDANCE WITH UL 924. REFER TO ELECTRICAL DRAWINGS.
F-12E EM1	EMERGENCY LIGHT FIXTURE
	EXIT SYMBOLS WALL MOUNTED / CEILING OR PENDANT MOUNTED.
	HATCH INDICATES GWB CEILING / SOFFIT TO BE MT-1. REFER TO FINISH SCHEDULE.
	HATCH INDICATES GWB CEILING / SOFFIT TO BE PAINTED. REFER TO FINISH SCHEDULE
TC	TRAFFIC COUNTER. PROVIDE CONDUIT FOR DATA.
	WIRELESS ACCESS POINT. PROVIDE CONDUIT FOR DATA.
SC	SECURITY CAMERA BY OWNER'S VENDOR; GC TO PROVIDE CLINTON POLE AND PULL STRING; VERIFY FINAL LOCATION OF CAMERA WITH OWNER'S VENDOR.
SP	WALL MOUNTED BLACK SPEAKER. SEE ELECTRICAL DRAWINGS. PROVIDED AND INSTALLED BY OWNER; VERIFY FINAL LOCATION WITH OWNER'S VENDOR.
	CEILING MOUNTED EAS SYSTEM, MOUNTED AT 8'-3" AFF USING STEEL CABLES. SPACING TO BE 8'-3" O.C. CENTERED IN STOREFRONT OPENING.
AP	ACCESS PANEL LOCATION. REFER TO INTERIOR ELEVATIONS.

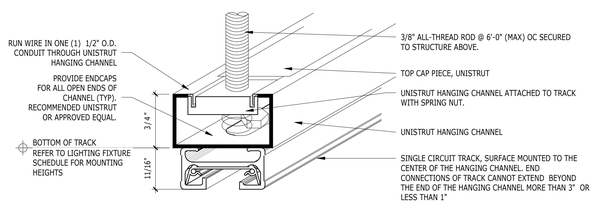
LIGHTING SCHEDULE

ALL GRADES

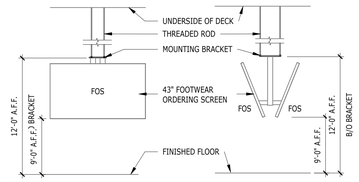
FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	LOCATION	HEIGHT (B/O)	FINISH	COMMENTS
	LT09_JL_SO_CR	4'-0" LINEAR TECH BATTENS	SALES	11' - 2" AFF	BLACK	6'-0" O.C. STAGGERED BETWEEN ROWS
	LT_06_JL_AG	BLACK TRACK HEAD	SALES DISPLAY WINDOWS	MOUNTED TO BLACK TRACK	BLACK	1 LIGHT PER PERIMETER BAY 2 LIGHTS PER EACH SIDE OF FLIGHTCASES 2 LIGHTS PER EACH FLOOR FIXTURE
	XTS4300-2	BLACK TRACK	SALES DISPLAY WINDOWS	11'-2" AFF	BLACK	TRACKS TO BE CONNECTED TYP. 5'-0" AWAY FROM PERIMETER WALLS
	LT03_JL_AG	6'-0" BOP LIGHTS	CASHWRAP	w/ CANOPY: 9'-0" AFF w/o CANOPY: 9'-10" AFF	SATIN NICKEL	CENTERED ABOVE EACH CASHWRAP BAY CENTERED ABOVE FROM FRONT OF CASHWRAP TO BACKSIDE OF CASHWRAP HUNG FROM AIRCRAFT CABLES
	LT12_JL_AG	4'-0" LINEAR LIGHT	STOCK ROOM MANAGERS OFFICE STAFF ROOM	STOCKROOM: VARIES MANAGERS OFFICE: SURFACE MOUNTED STAFF ROOM: SURFACE MOUNTED	WHITE	HEIGHTS VARY DEPENDING ON HEIGHT OF ADJACENT RACKING. TYP. 18" ABOVE RACKING. SPACING TO BE 10'-0" O.C. CENTERED IN THE STOCKROOM RACKING AISLES.
	X	EXISTING LIGHTING TO REMAIN	N/A	N/A	N/A	HEIGHT TO BE VERIFIED IN FIELD. ARCHITECT AND CLIENT PROJECT MANAGER TO BE INFORMED OF ANY DISCREPENCIES.
		JUST LANDED YELLOW LIGHTBOXES	STOREFRONT	PER PROJECT REQUIREMENTS	YELLOW ACRYLIC	RECESS/SURFACE MOUNTED. MAX LENGTH IS 5'-0" AND MIN. LENGTH IS 2'-0" WIDTH CANNOT BE ALTERED.

STREAMLINE FITTING ROOM

FIXTURE SYMBOL	FIXTURE TAG	DESCRIPTION	LOCATION	HEIGHT (BOTTOM OF)	FINISH	COMMENTS
	FR_LT_01	15" x 15"	FITTING ROOMS	SURFACE MOUNTED TO CEILING	WHITE	FITTING ROOM CUBICLES AND VESTIBULE



5 TRACK MOUNTING DETAIL
A3.0 SCALE: 12" = 1'-0"



4 FOS MOUNTING DETAIL
A3.0 SCALE: 1/2" = 1'-0"

CEILING PLAN KEYNOTES

1	LEASE LINE.
2	EXISTING MALL SOFFIT AND ALL RELATED LIGHTING FIXTURES, EQUIPMENT, AND FINISHES TO REMAIN (VIF).
3	GLAZING AND FRAME SYSTEM INSTALLED AT STOREFRONT. SPECIFICATION TO BE APPROVED BY PROJECT MANAGER - REFER TO GLAZING THICKNESS CHART.
4	SUSPENDED ILLUMINATED "JD" LOGO SIGNAGE CENTERED AT STOREFRONT ENTRANCE AND SUSPENDED VIA STAINLESS STEEL TUBING. PROVIDE ALL FR PLYWOOD SHEATHING AND/OR FR WOOD BLOCKING WITHIN BULKHEAD AS REQUIRED FOR SECURE ATTACHMENT - REFER TO SIGNAGE SHOP DRAWINGS.
5	SUSPENDED ILLUMINATED "JDSPORTS.COM" URL SIGNAGE CENTERED AT STOREFRONT GLAZING AND SUSPENDED VIA STAINLESS STEEL TUBING. PROVIDE ALL FR PLYWOOD SHEATHING AND/OR FR WOOD BLOCKING WITHIN BULKHEAD AS REQUIRED FOR SECURE ATTACHMENT - REFER TO SIGNAGE SHOP DRAWINGS.
6	BLACK LIGHTING TRACK SURFACE MOUNTED TO B/O OF BULKHEAD - REFER TO ENLARGED STOREFRONT SECTION. BREAK TRACK WHERE REQUIRED FOR STOREFRONT SIGNAGE AND CODE REQUIRED OUTLETS - REFER TO ELECTRICAL DRAWINGS.
7	RECESSED YELLOW ILLUMINATED BOX - 2 BAR WITH BLACK METAL CHANNEL AND ACRYLIC FACE @ 60" L. (MAX) x 16 9/16" W. x 3 3/8" D.
8	LINE OF NEW BULKHEAD ABOVE.
9	LED DIGITAL SCREEN SUSPENDED VIA THREADED ROD FROM BULKHEAD ABOVE. PROVIDE BLOCKING WITHIN BULKHEAD AND FLOOR MOUNTED SUPPORTS AS REQUIRED FOR SECURE ATTACHMENT. VINYL GRAPHIC APPLIED TO REAR OF FIXTURE - REFER TO ELECTRICAL DRAWINGS.
10	PROVIDE FLOOR TO CEILING POST TO B/O OF CEILING ABOVE. PROVIDE CONCEALED BLOCKING WITHIN BULKHEAD AND/OR CEILING ABOVE.
11	EXIT ROUTE SIGNAGE CENTERED ABOVE PATHWAY OR DOOR AS INDICATED - REFER TO CEILING LEGEND AND ELECTRICAL DRAWINGS.
12	SHOPPER TRACK SYSTEM MOUNTED TO THE FACE OF STOREFRONT SOFFIT. PROVIDE FIRE-RETARDANT-TREATED BLOCKING WITHIN SOFFIT AS REQUIRED FOR SECURE ATTACHMENT. FINISH SHALL MATCH ADJACENT CONSTRUCTION - REFER TO ELECTRICAL DRAWINGS.
13	FOOTWEAR ORDERING SCREEN (FOS) PROVIDED AND INSTALLED BY OWNER. PROVIDE CEILING MOUNTED ALL THREAD AT DETAILED HEIGHT AND PREPARE FOR BRACKET AND SCREEN INSTALLATION - REFER TO FOS MOUNTING DETAIL.
14	DEPARTMENT SIGNAGE SUSPENDED BY AIRCRAFT CABLE FROM CEILING ABOVE. B/O SIGNAGE SUSPENDED AT 9'-0" AFF (UNO) - REFER TO ENLARGED DETAILS.
15	FITTING ROOM ENTRANCE SIGNAGE SUSPENDED VIA AIRCRAFT CABLE FROM CEILING ABOVE. CL OF SIGN SHALL ALIGN TO CL OF FITTING ROOM ENTRANCE BELOW. B/O FITTING ROOM SIGNAGE AT 9'-0" AFF (UNO) - REFER TO ENLARGED PLANS AND DETAILS.
16	BLACK LIGHTING TRACK SUSPENDED VIA THREADED ROD - REFER TO TRACK MOUNTING DETAIL AND LIGHTING SCHEDULE. INSTALL TRACK MOUNTED DIRECTIONAL LED SPOTLIGHTS AS SHOWN - REFER TO ELECTRICAL DRAWINGS.
17	BLACK LED BATTEN LIGHT FIXTURE CENTRALLY MOUNTED WITHIN TRACK, SUSPENDED VIA AIRCRAFT CABLE. 6'-0" O/C AND 1'-8" (MIN) FROM TRACK AT EACH END - REFER TO LIGHTING SCHEDULE AND ELECTRICAL DRAWINGS.
18	LED PANEL LIGHT FIXTURE TO BE SET IN CLEAR SILICONE BEAD AROUND ALL SIDES FOR ADDED SECURITY - REFER TO ELECTRICAL DRAWINGS.
19	<varies>
20	BOH LIGHT FIXTURE TO BE SURFACE MOUNTED TO B/O OF CEILING. COORDINATE ALL EMERGENCY LIGHTING LOCATIONS - REFER TO ELECTRICAL DRAWINGS.
21	SUSPENDED BOP LED LINEAR LIGHT FIXTURE SUSPENDED VIA AIRCRAFT CABLE - REFER TO LIGHTING SCHEDULE.
22	ALL EXPOSED DUCTWORK, CEILING ASSEMBLY, PIPING, UNISTRUT, HVAC GRILLES, SPRINKLER PIPING, ETC SHALL RECEIVE NEW FINISH (PT-3) - REFER TO FINISH SCHEDULE.
23	EXISTING EXHAUST FAN AND RELATED DUCTWORK TO REMAIN. DEEP CLEAN AND VERIFY WORKING CONDITION PRIOR TO WORK COMPLETION - REFER TO MECHANICAL DRAWINGS
24	EXISTING LIGHTING FIXTURE TO REMAIN. CLEAN AND RELAMP AS REQUIRED FOR PROPER FUNCTION - REFER TO ELECTRICAL DRAWINGS.

REFLECTED CEILING PLAN GENERAL NOTES

A. REFER TO SHEET IS5.0 AND IS6.0 FOR FINISHES AND RESPONSIBILITIES.
B. OUTLETS AND OUTLET COVER PLATES TO MATCH PAINT ADJACENT SURFACE. SEE ELECTRICAL PLANS FOR OUTLET SPECS & LOCATIONS.
C. WHERE APPLICABLE, ALL SPRINKLER HEADS IN STOCK ROOM TO BE 18" ABOVE THE HIGHEST STOCK SHELF (MINIMUM).
D. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
E. DIMENSIONS ARE FROM FACE OF SHEATHING TO THE CENTERLINE OF OBJECTS, UNLESS NOTED OTHERWISE.
F. THE EMERGENCY LIGHTS WILL PROVIDE AN AVERAGE OF ONE (1) FOOTCANDLE ALONG THE ENTIRE MEANS OF EGRESS PER NFPA 101;7.9.
G. LIGHTING IN STOCK ROOM TO BE CENTERED IN STORAGE SHELF AISLES.
H. CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND MANUFACTURER INSTRUCTIONS NOT SHOWN ON THIS PLAN.
I. ALL EMERGENCY LIGHTS AND EXIT SIGNS SHALL BE ON BATTERY BACKUP (NON-UTILITY SOURCE) IN CASE OF POWER LOSS. SEE ELECTRICAL PLANS.
J. ALL CEILING MOUNTED FIXTURES AND TRIM SHALL MATCH (PT-3) OR SPRAYED WITH MATTE PAINT TO MATCH (PT-3) PRIOR TO INSTALL.
K. ANY EXISTING TO REMAIN CEILINGS OR CEILING DEVICES SHALL MATCH SPECIFIED (PT-3) FINISH / COLOR.
L. ALL ITEMS IN PLENUM CEILINGS WILL REQUIRE PLENUM RATING PER CODE AND IF ANY PVC PIPES WOULD NEED SLEEVED/WRAPPED IF NOT PLENUM RATED.
M. ALL SECURITY ITEMS SHALL MATCH ADJACENT WALL OR CEILING FINISH COLOR. SEE IS6.0 FOR FINISH SCHEDULE.
N. WHERE GWB CEILING OCCURS, ACCESS PANELS ARE REQUIRED FOR OVERHEAD ITEMS. LOCATIONS TBD, COORDINATE IN FIELD WITH GC.
O. ALL VENTS/LIGHT FIXTURES IN REST ROOMS, FITTING ROOMS, OFFICE, STAFF ROOM, ETC. TO BE SECURED IN PLACE IN THE DRYWALL CEILING.
P. WHERE GWB CEILING OCCURS, GC TO COORDINATE LIGHT FIXTURE LAYOUT & SIZES WHILE FRAMING THE CEILING GRID.
Q. COORDINATE ADDITIONAL CEILING ACCESS DOORS W/ PROJECT MANAGER AND AS REQUESTED BY LANDLORD TO MAINTAIN ACCESS TO LANDLORD EQUIPMENT. MAINTAIN ACCESS TO LANDLORD'S HVAC, ELECTRICAL, AND PLUMBING SYSTEMS, INCLUDING CLEANOUTS, VALVES DAMPERS, "J" BOXES, SMOKE DETECTORS, ETC.
R. PROVIDE UNISTRUT SPANNING FROM LANDLORD'S STRUCTURE AS REQUIRED. PAINT UNISTRUT, HVAC DUCTS, LIGHTING ESCUTCHEON RINGS/CANOPIES, AND SALES FLOOR EMERGENCY LIGHTS TO MATCH CEILING.
S. USE ZIP TIES FOR ALL CORD/WIRE MANAGEMENT, BLACK ZIP TIES TO BE USED FOR BLACK CEILINGS, WHITE ZIP TIES TO BE USED FOR GREY CEILINGS.
T. BOTTOM OF FOOTWEAR ORDERING SCREENS AT 9'-0" AFF. AT SUSPENDED FOOTWEAR ORDERING SCREENS, GC TO PROVIDE UNISTRUT SPANNING FROM LANDLORD'S STRUCTURE AS REQUIRED.
U. GC TO PROTECT ACRYLIC PANELS OF LIGHT BOXES DURING CONSTRUCTION. DO NOT APPLY TAPE TO ACRYLIC PANELS.

JD

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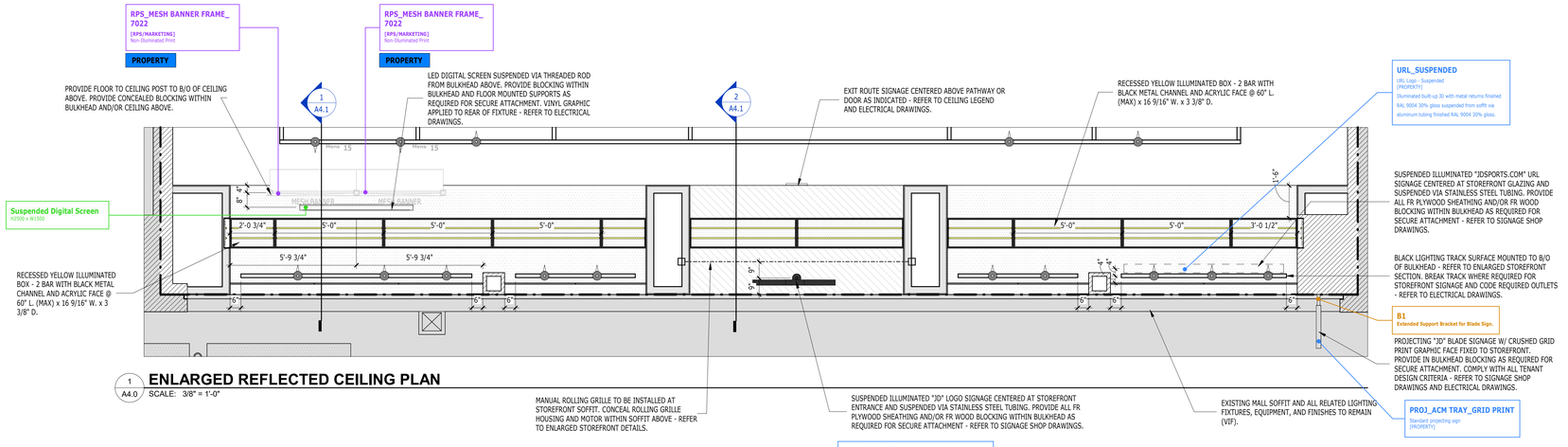
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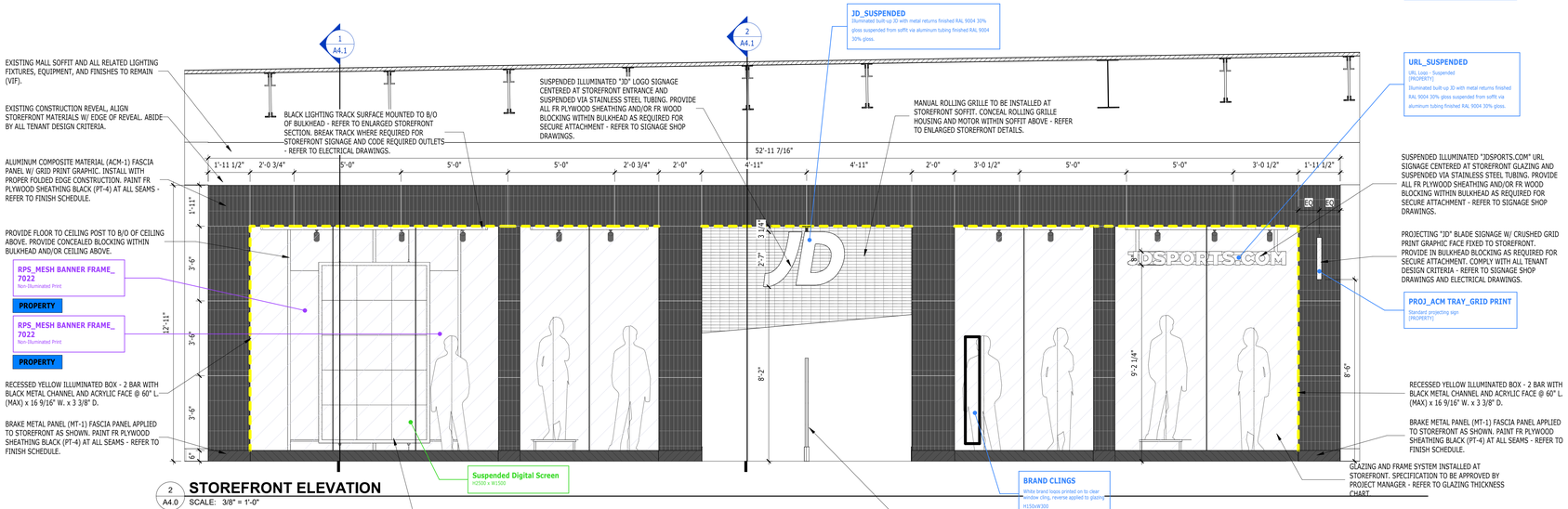
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REFLECTED CEILING PLAN

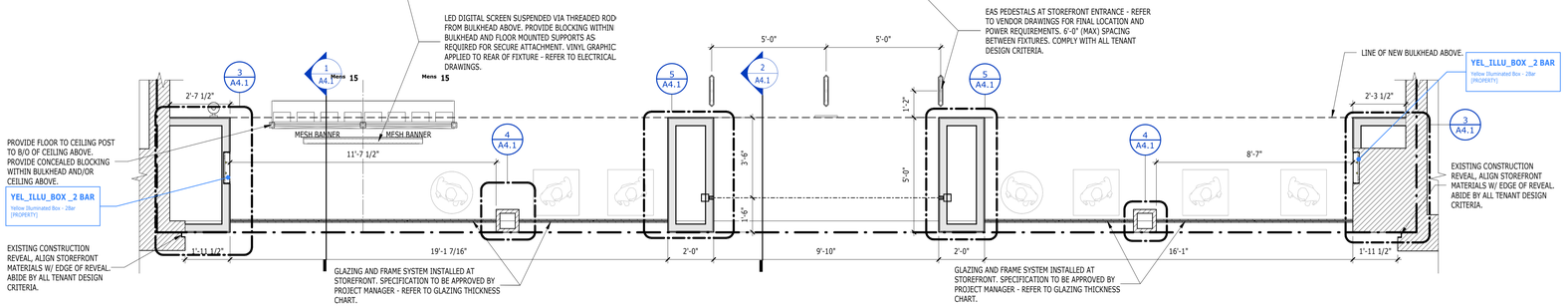
A3.0



1 A4.0 **ENLARGED REFLECTED CEILING PLAN**
SCALE: 3/8" = 1'-0"



2 A4.0 **STOREFRONT ELEVATION**
SCALE: 3/8" = 1'-0"



3 A4.0 **ENLARGED STOREFRONT PLAN**
SCALE: 3/8" = 1'-0"

STOREFRONT PLANS & ELEVATIONS GENERAL NOTES

A. THE GC SHALL PROTECT LANDLORD'S EXISTING PROPERTY/CONSTRUCTION TO REMAIN. IN THE CASE THAT ANY DAMAGE OCCURS DUE TO THE GC'S ACTIONS, THE GC SHALL MAKE ALL NECESSARY REPAIRS TO THE EXISTING CONSTRUCTION AND PREPARE SURFACES TO RECEIVE NEW FINISHES - AT THE GC'S EXPENSE - PER THE LANDLORD'S TENANT DESIGN CRITERIA. REFER TO THE DEMOLITION PLAN FOR ADDITIONAL INFORMATION RELATED TO THE TEMPORARY CONSTRUCTION BARRIER REQUIREMENTS.

B. SIGNAGE:
- IMMEDIATELY AFTER DEMOLITION, THE GC MUST COORDINATE WITH THE SIGN VENDOR FOR ANY SIGN INSTALLATION REQUIREMENTS: BUT NOT LIMITED TO; PRE-WIRING AND ELECTRICAL REQUIREMENTS, ACCESS PANELS, SIGN SUPPORT AND/OR BLOCKING REQUIREMENTS, CAT-WALKS, ETC.
- REFER TO SIGN SHOP DRAWINGS FOR SIGN DETAILS. PRE-FABRICATED SIGN ASSEMBLY FURNISHED & INSTALLED BY SIGN CONTRACTOR UNDER A SEPARATE PERMIT.
- SIGN VENDOR SHALL OBTAIN LANDLORD APPROVAL AND AGENCY / PERMIT APPROVALS VIA SEPARATE SUBMITTAL.

C. TENANT MUST PROVIDE STORE KEYS AND KNOX BOX (IF APPLICABLE) UPON THEIR FINAL STORE FIRE INSPECTION.

D. THE GC SHALL COORDINATE INSTALLATION OF SECURITY SYSTEM WITH VENDOR - REFER TO REFLECTED CEILING PLAN, POWER & DATA PLAN, AND ELECTRICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.

STOREFRONT:

WIDTH:	28'- 8"
AREA OF GLAZING:	248 SF

JD

#1519

Northwest Arkansas Mall

SUITE #1195
4201 North Shiloh Drive,
Fayetteville, AR, 72703

CONSULTANT

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REGISTERED ARCHITECT
SCOTT BOFINGER
No. 9121?5
STATE OF ARKANSAS

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

STOREFRONT PLANS & ELEVATIONS

A4.0

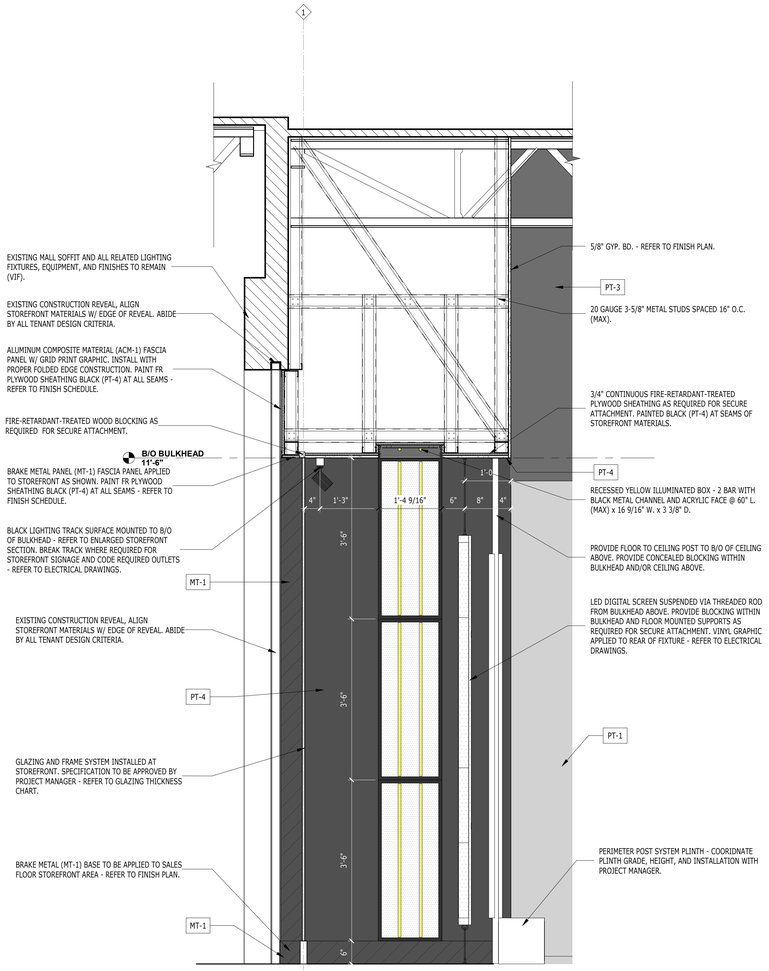
STOREFRONT PLANS & ELEVATIONS GENERAL NOTES

A. THE GC SHALL PROTECT LANDLORD'S EXISTING PROPERTY/CONSTRUCTION TO REMAIN. IN THE CASE THAT ANY DAMAGE OCCURS DUE TO THE GC'S ACTIONS, THE GC SHALL MAKE ALL NECESSARY REPAIRS TO THE EXISTING CONSTRUCTION AND PREPARE SURFACES TO RECEIVE NEW FINISHES - AT THE GC'S EXPENSE - PER THE LANDLORD'S TENANT DESIGN CRITERIA. REFER TO THE DEMOLITION PLAN FOR ADDITIONAL INFORMATION RELATED TO THE TEMPORARY CONSTRUCTION BARRIER REQUIREMENTS.

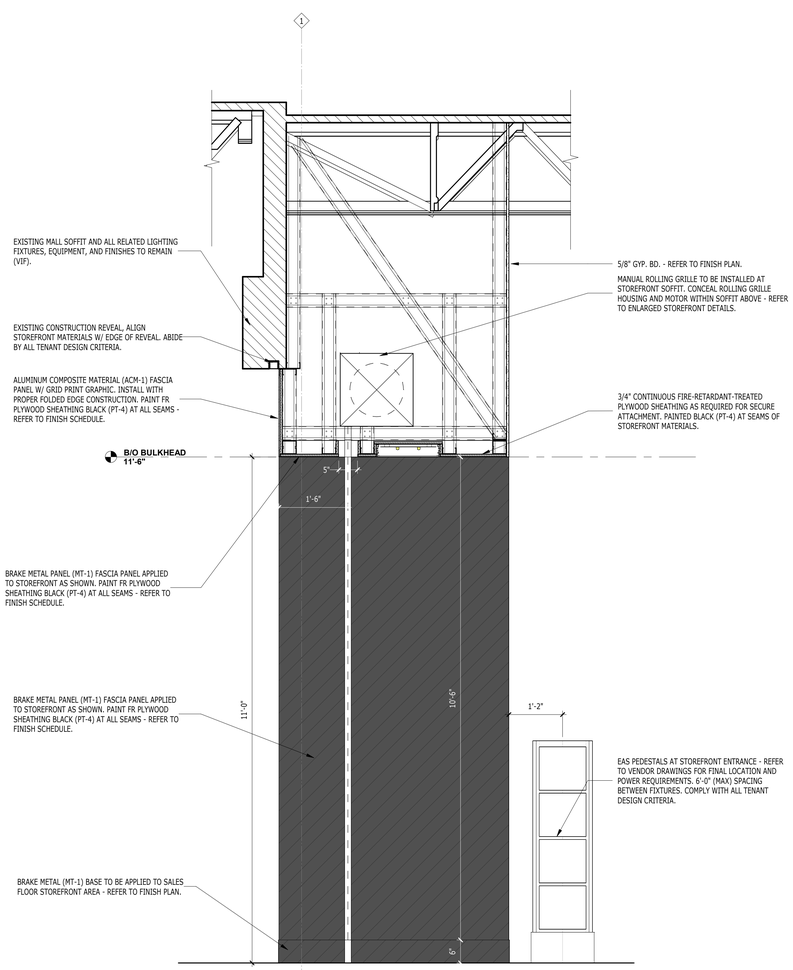
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C. TENANT MUST PROVIDE STORE KEYS AND KNOX BOX (IF APPLICABLE) UPON THEIR FINAL STORE FIRE INSPECTION.

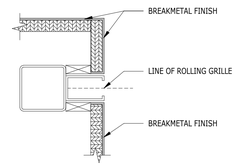
D. THE GC SHALL COORDINATE INSTALLATION OF SECURITY SYSTEM WITH VENDOR - REFER TO REFLECTED CEILING PLAN, POWER & DATA PLAN, AND ELECTRICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.



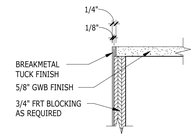
1 A4.1 **STOREFRONT SECTION**
SCALE: 3/4" = 1'-0"



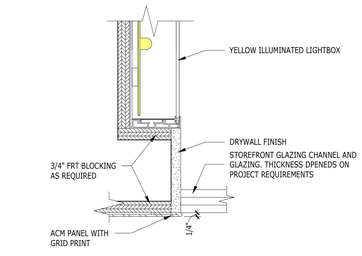
2 A4.1 **STOREFRONT SECTION**
SCALE: 3/4" = 1'-0"



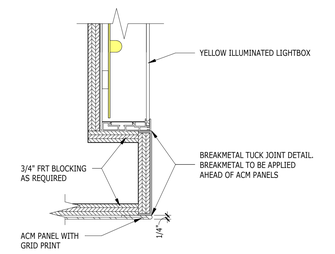
6 A4.1 **TYP. MT-1 FINISH DETAIL**
SCALE: 3" = 1'-0"



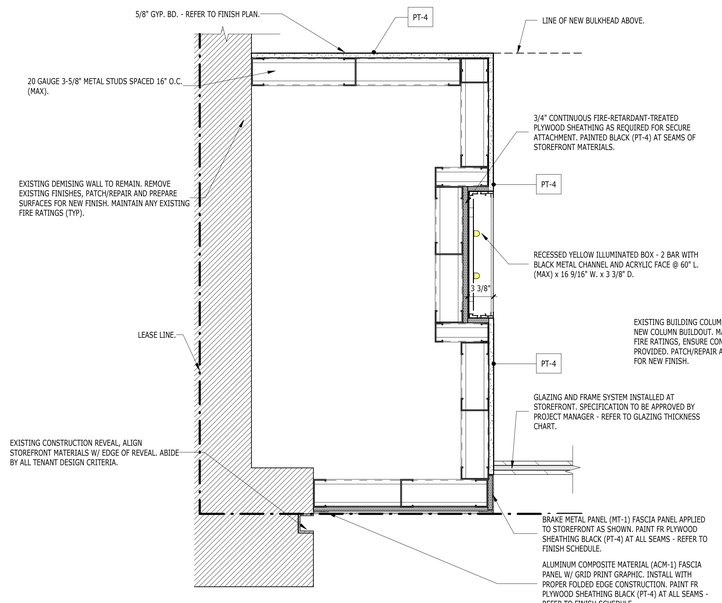
7 A4.1 **TYP. MT-1 FINISH DETAIL**
SCALE: 3" = 1'-0"



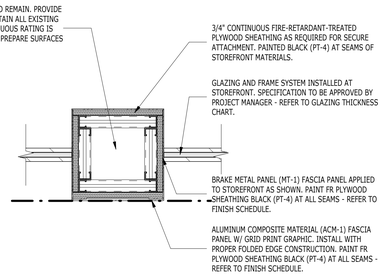
8 A4.1 **TYP. ACM-1 & GWB FINISH DETAIL**
SCALE: 3" = 1'-0"



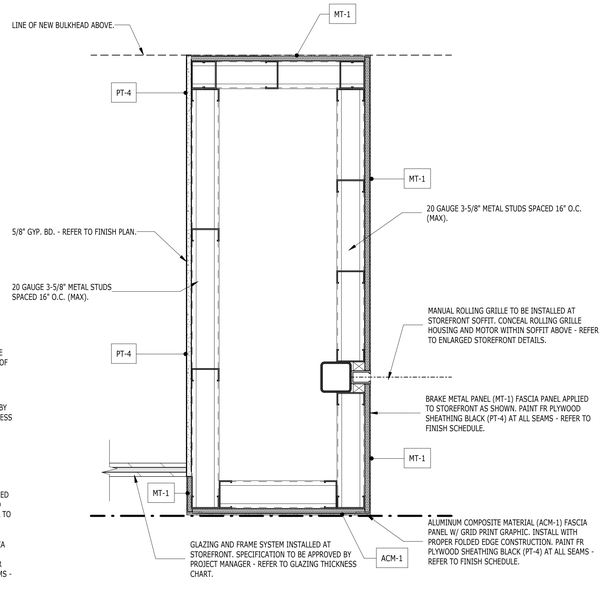
9 A4.1 **TYP. ACM-1 & MT-1 FINISH DETAIL**
SCALE: 3" = 1'-0"



3 A4.1 **ENLARGED STOREFRONT PIER**
SCALE: 1 1/2" = 1'-0"



4 A4.1 **ENLARGED STOREFRONT PIER**
SCALE: 1 1/2" = 1'-0"



5 A4.1 **ENLARGED STOREFRONT PIER**
SCALE: 1 1/2" = 1'-0"

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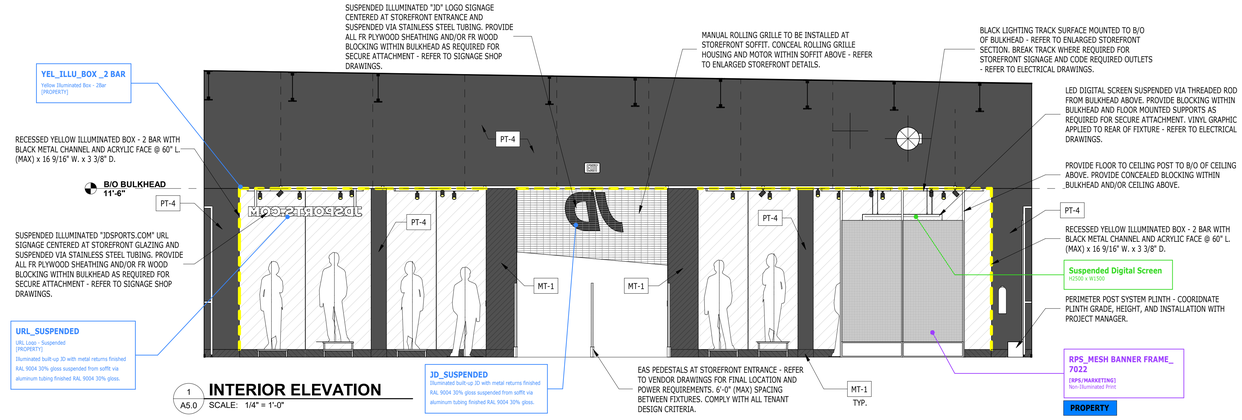
REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912175
STATE OF ARKANSAS

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

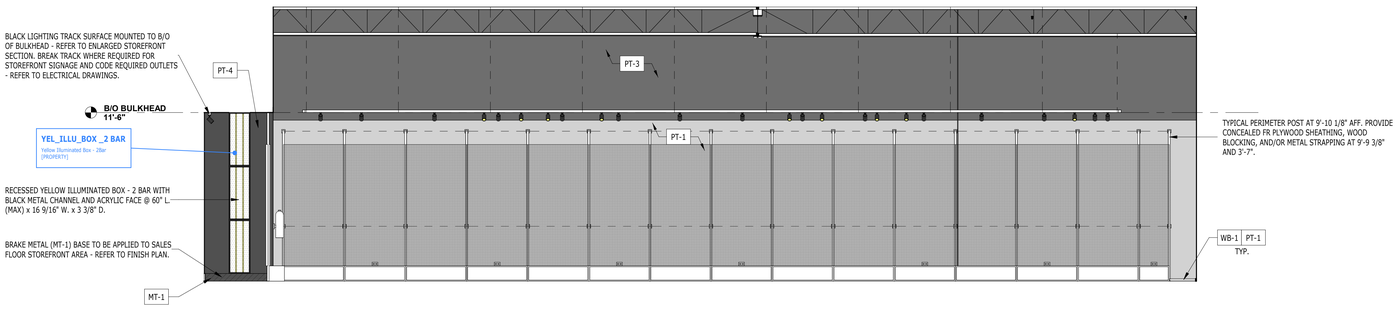
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STOREFRONT SECTIONS & DETAILS

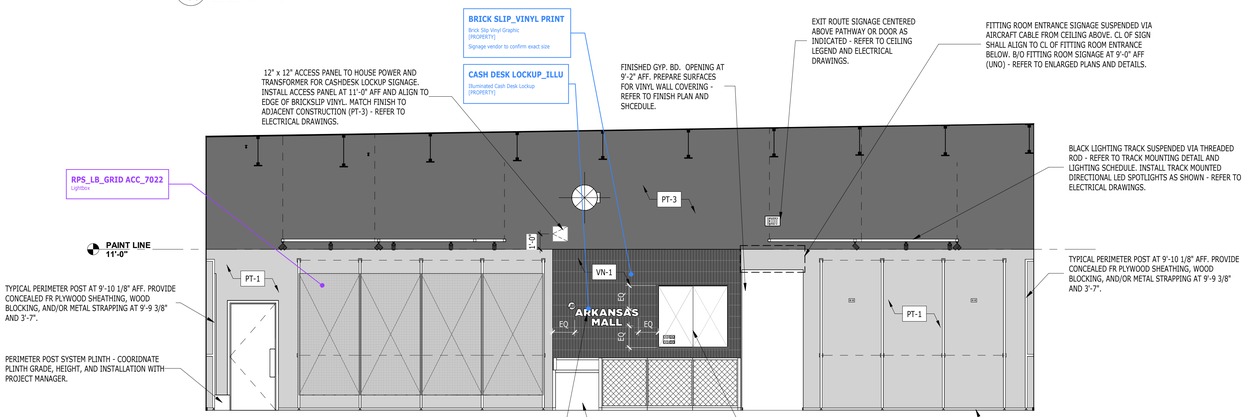
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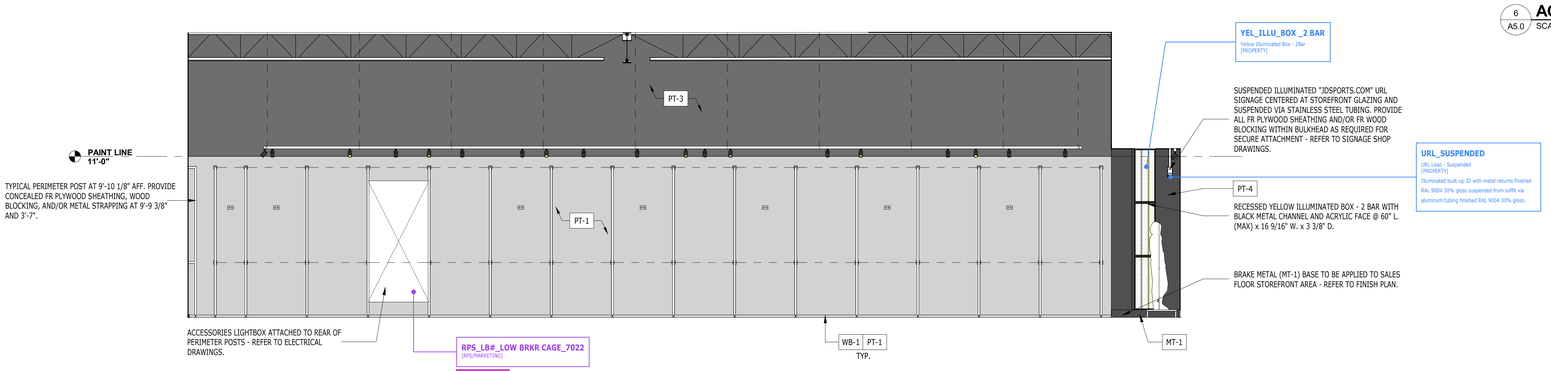
1 A5.0 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



2 A5.0 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



3 A5.0 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



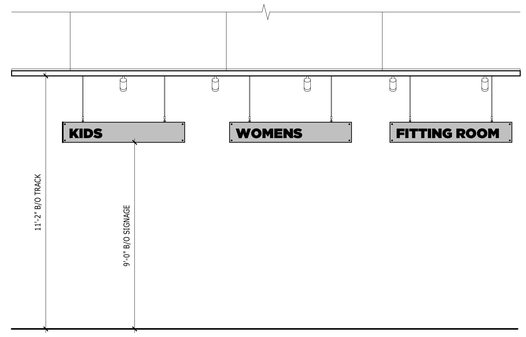
4 A5.0 **INTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"

WALL FINISH LEGEND		
MARK	TYPE	COLOR
PT-1	PAINT	
PT-2	PAINT	
PT-3	PAINT	
PT-4	PAINT	
PT-5	PAINT	
PT-6	PAINT	
VN-1	BRICK SLIP VINYL	
VN-2	CUSTOM VINYL	
MT-1	BREAK METAL	
ACM-1	ACM PANEL w/ GRID	
WB-1	POPLAR BASE	
WB-1	POPLAR BASE *(IN FITTING ROOMS)*	
RB-1	RUBBER BASE	

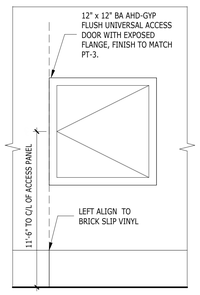
INTERIOR ELEVATIONS GENERAL NOTES

A. REFER TO SHEET IS6.0 FOR FINISH SCHEDULE.
B. REFER TO FIXTURE PLAN FOR INTERIOR ELEVATION MARKERS.
C. GC TO TOUCH UP ALL OWNER PROVIDED FIXTURE MATERIAL AFTER INSTALLATION.
D. GC SHALL REFER TO FIXTURE INSTALLATION HANDBOOK FOR ADDITIONAL INFORMATION.
E. GC SHALL INCLUDE AS PART OF SCOPE OF WORK A FINAL TOUCH UP FOR PAINTING AFTER THE STORE IS STOCKED AND PRIOR TO STORE OPENING.
F. WALL MOUNTED FIXTURES SHOWN FOR REFERENCE ONLY. COORDINATE WITH OWNER.
G. ALL ELECTRICAL/ DATA COVER PLATES TO MATCH WALL COLOR.

PROFILE OF STOREFRONT YELLOW ILLUMINATION (RECESSED)
PROFILE OF STOREFRONT YELLOW ILLUMINATION (SURFACE MOUNTED)



5 A5.0 **TRACK AND TEXTFLEX MOUNTING DETAIL**
SCALE: 1/2" = 1'-0"



6 A5.0 **ACCESS PANEL DETAIL**
SCALE: 1 1/2" = 1'-0"

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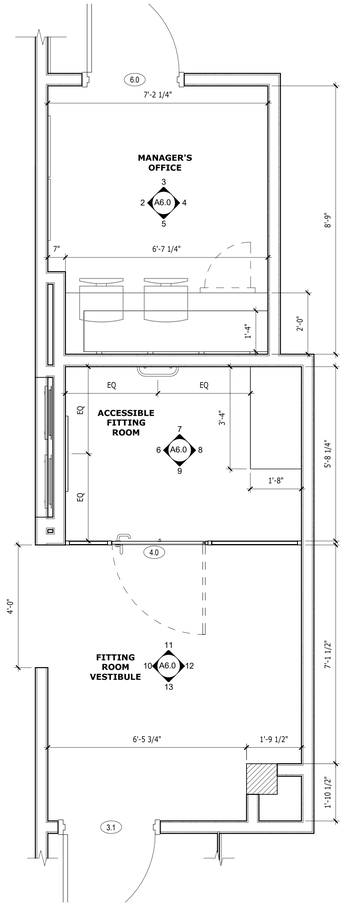
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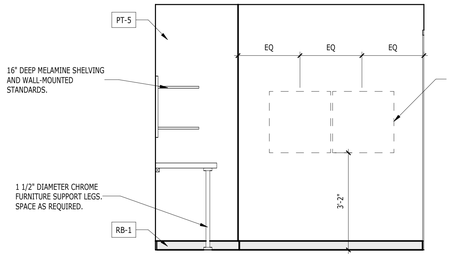
INTERIOR ELEVATIONS

A5.0



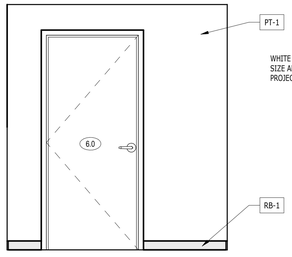
1 A6.0 ENLARGED MANAGER'S OFFICE AND FITTING ROOM PLAN

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



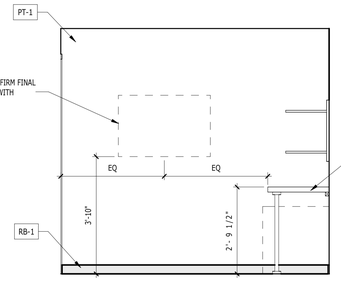
2 A6.0 MANAGER'S OFFICE ELEVATION

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



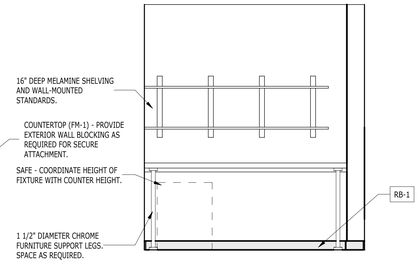
3 A6.0 MANAGER'S OFFICE ELEVATION

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



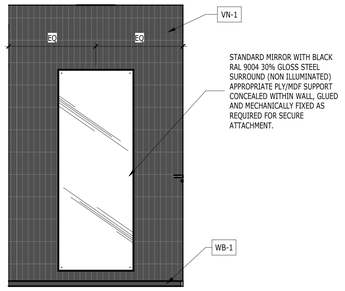
4 A6.0 MANAGER'S OFFICE ELEVATION

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



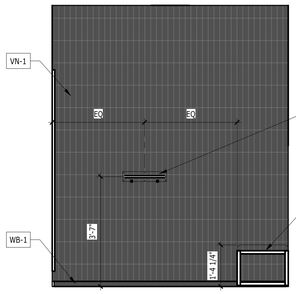
5 A6.0 MANAGER'S OFFICE ELEVATION

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



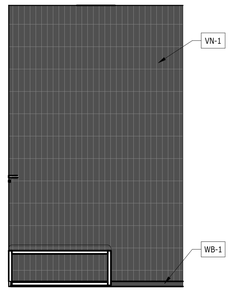
6 A6.0 FITTING ROOM ELEVATION

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



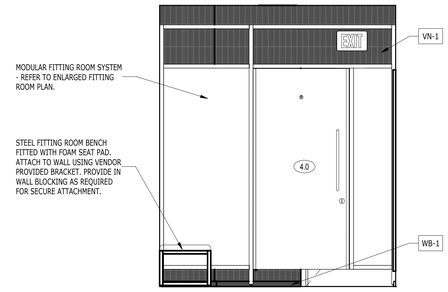
7 A6.0 FITTING ROOM ELEVATION

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



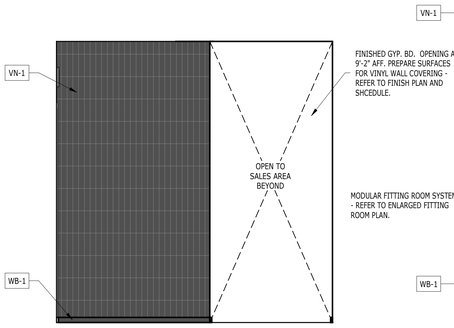
8 A6.0 FITTING ROOM ELEVATION

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



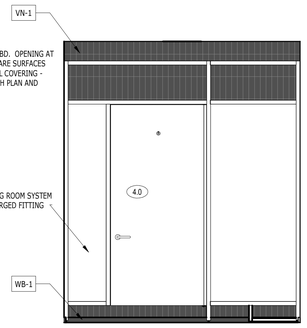
9 A6.0 FITTING ROOM ELEVATION

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



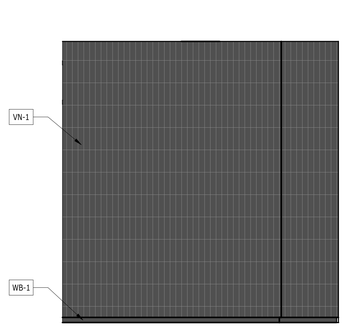
10 A6.0 VESTIBULE ELEVATION

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



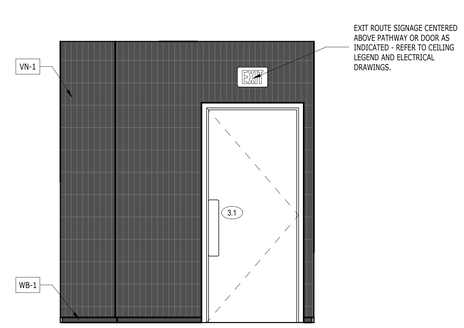
11 A6.0 VESTIBULE ELEVATION

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



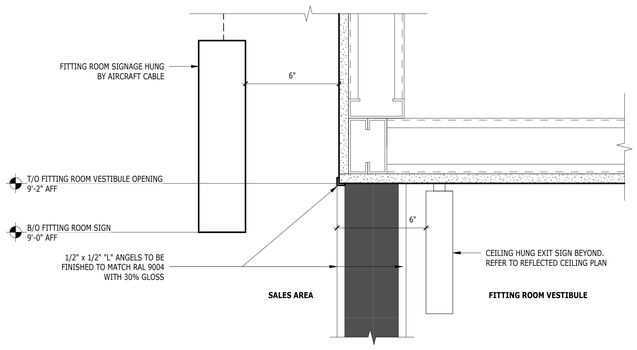
12 A6.0 VESTIBULE ELEVATION

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



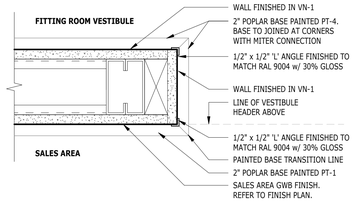
13 A6.0 VESTIBULE ELEVATION

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



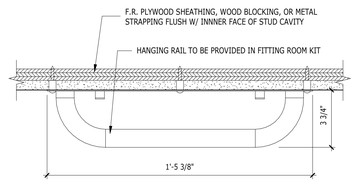
15 A6.0 FITTING ROOM SIGNAGE DETAIL

SCALE: 3" = 1'-0"



14 A6.0 FITTING ROOM BASE DETAIL

SCALE: 3" = 1'-0"



16 A6.0 FITTING ROOM HANGING RAIL DETAIL

SCALE: 3" = 1'-0"

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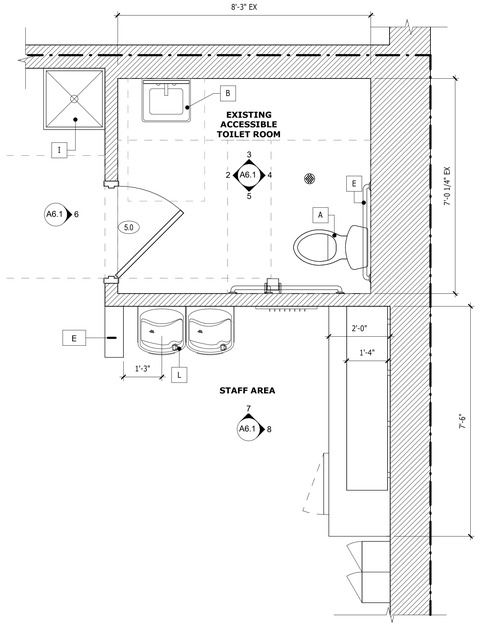
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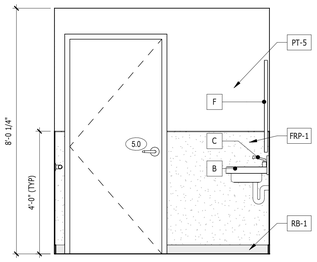
ENLARGED PLANS AND DETAILS

A6.0



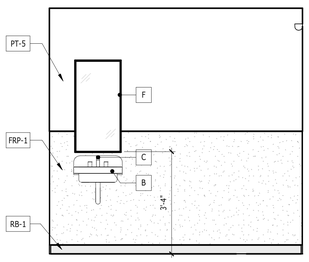
1 A6.1 ENLARGED TIOLET ROOM AND STAFF AREA PLAN

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



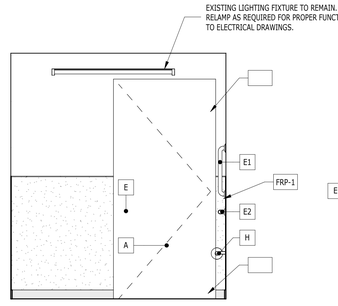
2 A6.1 EXISTING TOILET ROOM ELEVATION

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



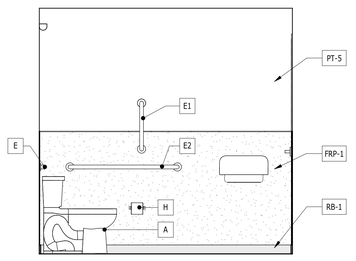
3 A6.1 EXISTING TOILET ROOM ELEVATION

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



4 A6.1 EXISTING TOILET ROOM ELEVATION

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



5 A6.1 EXISTING TOILET ROOM ELEVATION

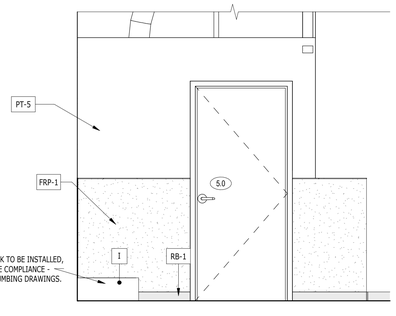
SCALE: 1/2" = 1'-0"

EXISTING TOILET ROOM NOTES

- TOILET: GC SHALL ENSURE THAT THE FIXTURE IS FULLY FUNCTIONING. CLEAN COMPLETELY. NOTIFY THE TENANT PROJECT MANAGER IF THERE ARE ANY CRACKS OR LEAKS. ENSURE THAT SEAT IS EXISTING, COMPLETE, LEVEL, CLEAN, AND IS PROPERLY ATTACHED
- SINK: GC SHALL ENSURE THAT THE FIXTURE IS FULLY FUNCTIONING. FIXTURE MUST BE SECURELY ATTACHED TO THE WALL. CLEAN ALL COMPONENTS.
- FAUCET: GC SHALL ENSURE THAT FAUCET IS FULLY FUNCTIONING. CLEAN ALL COMPONENTS. FAUCET TO BE SECURELY ATTACHED TO FIXTURE. ENSURE THERE ARE NO LEAKS FROM FAUCET.
- PIPEWRAP: GC SHALL ENSURE THAT THERE IS COMPLETE PIPEWRAP COVERING EXPOSED PIPING.
- GRAB BARS: GC SHALL ENSURE THAT THE BARS ARE SECURELY ATTACHED TO THE WALL, CLEAN, AND LEVEL.
- PAPER TOWEL DISPENSER: GC SHALL ALWAYS REPLACE IF ONE IS EXISTING TO ENSURE CONFORMITY ACROSS STORES.
- TP HOLDER: GC SHALL ENSURE FIXTURE IS SECURELY ATTACHED TO WALL AND THAT IT HAS A WORKING SPINDLE.
- MIRROR: GC SHALL ENSURE FIXTURE IS SECURELY ATTACHED TO WALL AND FREE OF CRACKS. CLEAN FIXTURE.

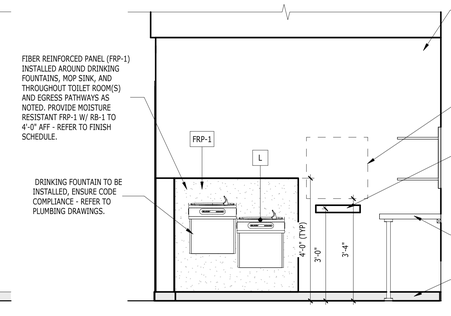
06 - TOILET ROOM GENERAL NOTES

- GC SHALL FURNISH & INSTALL NEW ACCESSORIES IF EXISTING ACCESSORIES TO BE REUSED ARE NOT IN ACCORDANCE WITH CURRENT ADA REGULATIONS AND/OR DO NOT MEET REQUIREMENTS OF DRAWINGS.
- GC SHALL FURNISH & INSTALL GRAB BARS SO THAT THEY DO NOT ROTATE AND THERE ARE TO BE NO SHARP OR ABRASIVE ELEMENTS ON OR ADJACENT TO THEM. EDGES ARE TO HAVE A MINIMUM 1/8" RADIUS.
- GC SHALL ENSURE THAT GRAB BAR BACKING AND ATTACHMENT SHALL BE CONSTRUCTED FOR A 250 POUND POINT LOAD
- GC SHALL INSULATE OR COVER ALL HOT WATER AND DRAIN PIPES UNDER LAVATORY. NO SHARP OR ABRASIVE SURFACES ALLOWED UNDER LAVATORY.
- GC SHALL ENSURE THAT FAUCET CONTROLS AND OPERATING MECHANISMS ARE EASILY OPERATED BY ONE HAND AND MUST NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE NEEDED TO ACTIVATE CONTROLS SHALL NOT EXCEED 5 LBS. FOR LEVER OPERATED OR 15 LBS. FOR PUSH TYPE.
- GC SHALL FURNISH & INSTALL SOLID BLOCKING IN WALL FOR ALL TOILET ACCESSORIES.



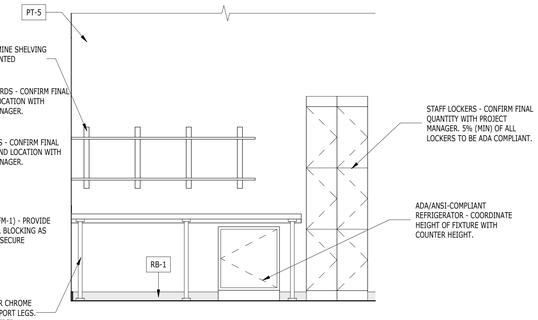
6 A6.1 SERVICE SINK ELEVATION

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



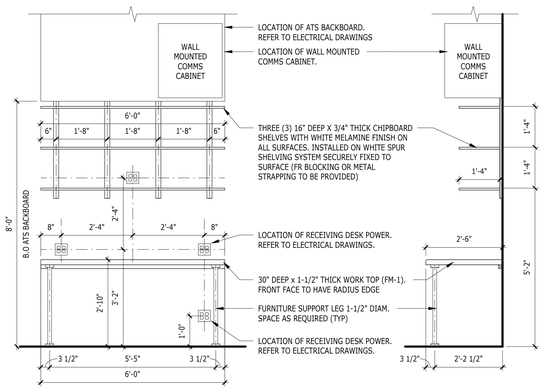
7 A6.1 STAFF AREA ELEVATION

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



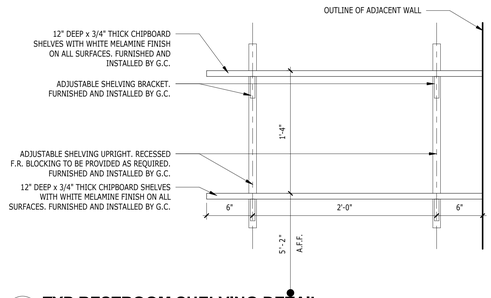
8 A6.1 STAFF AREA ELEVATION

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



05 - RECEIVING DESK DETAILS

NOT TO SCALE



10 A6.1 TYP RESTROOM SHELVING DETAIL

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

TOILET ROOM COMPONENT SCHEDULE

MARK	ITEM	MODEL #	ETR	NEW	NOTES
A	TOILET	SEE PLUMBING PLANS	1	--	--
	TOILET SEAT	SEE PLUMBING PLANS	--	1	--
B	SINK	SEE PLUMBING PLANS	1	--	RELOCATED AS NOTED
C	LEVER HANDLE FAUCET	SEE PLUMBING PLANS	1	--	--
D	PIPE WRAP	SEE PLUMBING PLANS	1	--	--
E	GRAB BAR	BOBRICK (1) B-6806x36	1	--	--
E1	GRAB BAR (VERTICAL)	BOBRICK (1) B-6800x18	1	--	--
E2	GRAB BAR	BOBRICK (1) B-6806x42	1	--	--
E3	DRINKING FOUNTAIN GRAB BAR	BOBRICK 819298	--	--	--
F	MIRROR	BOBRICK B-165 1836	1	--	RELOCATED AS NOTED
G	PAPER TOWEL DISPENSER	BOBRICK B-9262	1	--	--
H	TOILET PAPER HOLDER	BOBRICK B-4288	1	--	--
I	SERVICE SINK	SEE PLUMBING PLAN	--	1	--
J	DRINKING FOUNTAIN	SEE PLUMBING PLAN	--	1	--
K	SOAP DISPENSER	GOJO ADX-7 MANUAL DISP	--	1	FURNISHED BY OWNER
WH	WATER HEATER	SEE PLUMBING PLAN	--	1	MOUNTED ABOVE RESTROOMS

1. GC TO ENSURE THE EXISTING ITEMS COMPLY WITH NOTES ON THIS PAGE (VERIFY IN FIELD BEFORE BIDDING). IF GC IS PRESENTED WITH LONG LEAD TIMES, THEY MUST PRESENT A CUT SHEET OF PROPOSED SUBSTITUTION TO TENANT PROJECT MANAGER.
2. THE GC SHALL FURNISH AND INSTALL NEW TOILET ROOM COMPONENTS LISTED ON SCHEDULE, UNO.
3. REFER TI ACCESSIBILITY DETAILS SHEET(S) FOR PLUMBING AND ACCESSORY MOUNTING HEIGHTS.

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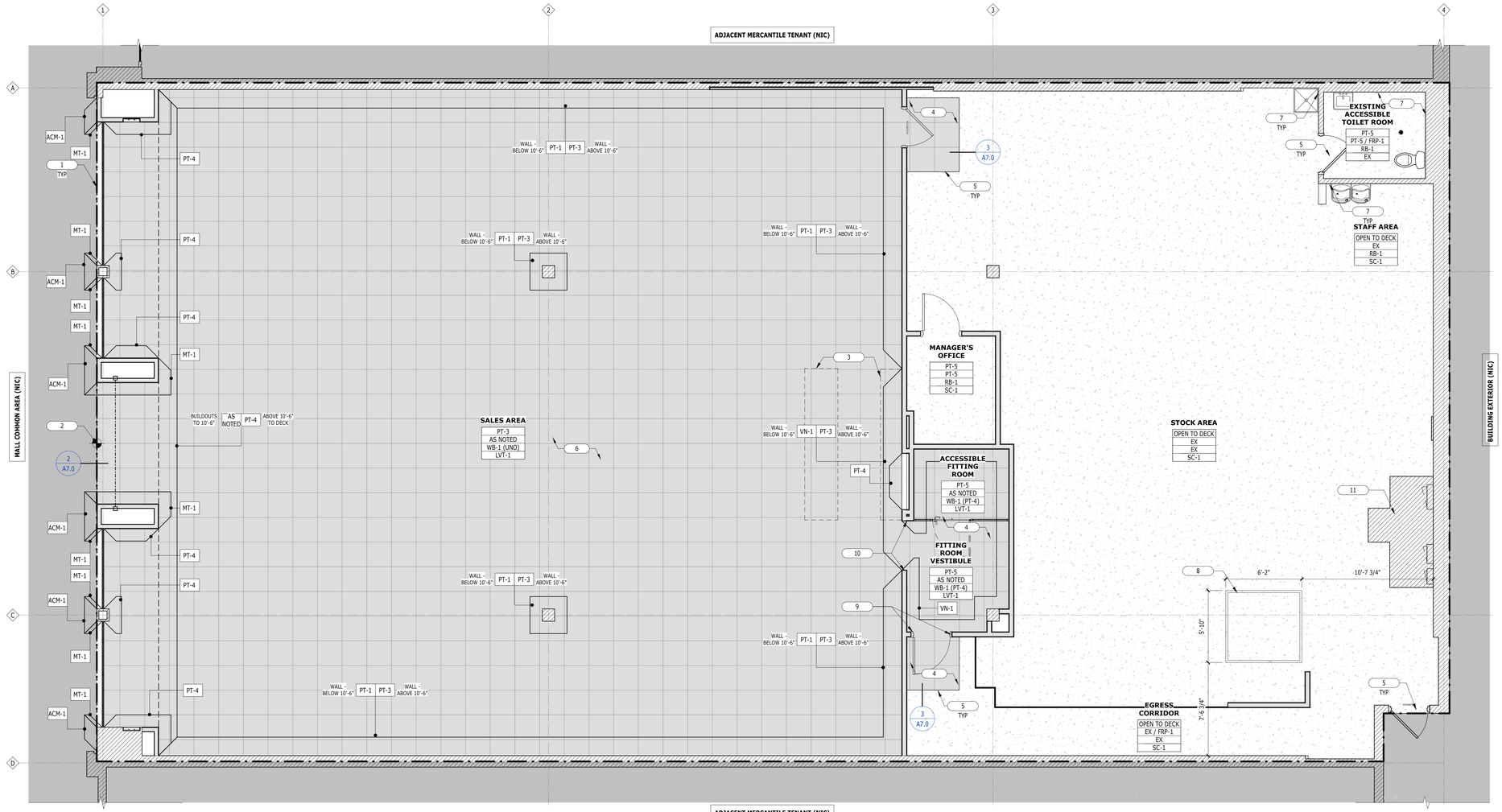
REGISTERED ARCHITECT
SCOTT BOFINGER
NO. 912178
STATE OF ARKANSAS

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

PROJECT NO:	25428
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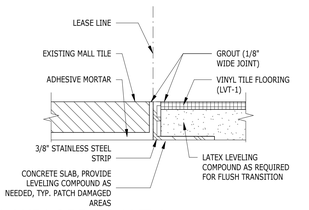
ENLARGED PLANS AND DETAILS

A6.1



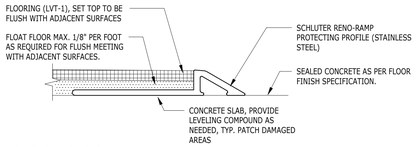
1 A7.0 FINISH PLAN

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



2 A7.0 LANDLORD TO LVT-1

SCALE: 12" = 1'-0"



3 A7.0 LVT-1 TO SC-1

SCALE: 12" = 1'-0"

FINISH PLAN LEGEND

- SEE SHEET IS5.0 FOR SPECIFICATIONS AND FINISH NOTES
- ALL FLOORING INSTALLED BY THE GC
- FLOOR PATTERNS ON PLAN ARE NOT TO SCALE. THEY ARE ONLY A VISUAL AID OF THE PATTERN TYPES
- NOT ALL FLOORING MATERIALS SHOWN BELOW ARE UTILIZED PER PROJECT. REFER TO PLAN FOR ALL APPLICABLE FINISHES.

FLOOR COVERING PATTERNS

SC-1	SEE FINISH SCHEDULE
LVT-1	SEE FINISH SCHEDULE
WM-1	SEE FINISH SCHEDULE
CP-1	SEE FINISH SCHEDULE
VCT-1	SEE FINISH SCHEDULE

ROOM FINISH TAG

ROOM
XX-#
XX-#
XX-#
XX-#

CEILING FINISH
WALL FINISH
BASE FINISH
FLOOR FINISH

MOISTURE BARRIER CHART

GC SHALL PERFORM RELATIVE HUMIDITY TEST USING WAGNER RELATIVE RAPID HUMIDITY RH TESTING PROBE. GC SHALL FOLLOW WRITTEN SPECIFICATIONS PROVIDED BY MANUFACTURER. USE THE BELOW INFORMATION AS A GUIDELINE FOR PRODUCT SPECIFICATION.

MOISTURE LEVEL	MOISTURE BARRIER SPECIFICATION
LESS THAN 75%	FOLLOW ASTM F710-11 STANDARDS
75% - 85%	APACENCAPSEAL 2 COAT SYSTEM
85% - 100%	TAYLOR SIGNATURE LINE DYNAMIC FLOORING ADHESIVE

FLOORING TAKEOFFS

PRODUCT	AREA
(SC-1) SEALED CONCRETE - LOCALLY SOURCED	3,107 SF
(SC-1) SEALED CONCRETE - LOCALLY SOURCED	2,100 SF
(LVT-1) SVART VINYL TILE - PRINTED CONCRETE AGGREGATE	3,619 SF
(LVT-1) SVART VINYL TILE - PRINTED CONCRETE AGGREGATE	3,613 SF
(CP-1) CONTRACT CARPET TILE - BLACK	46 SF
	1,540 SF

FINISH PLAN KEYNOTES

1	LEASE LINE.
2	FLOORING START POINT.
3	CONTINUE SALES FLOOR BASE (WB-1) AROUND BASE OF CASHDESK AND BACKWRAP. COORDINATE WITH PROJECT MANAGER.
4	EXTEND SALES FINISHES INTO FITTING ROOM AND BOH AS SHOWN. PROVIDE FULL TILES AT TRANSITION - REFER TO TRANSITION DETAILS.
5	IF NOT EXISTING, PROVIDE COMPLIANT THRESHOLD.
6	BUTT JOINT FLOORING MATERIALS TOGETHER FOR TIGHT AND SOOTH TRANSITION - REFER TO TRANSITION DETAILS
7	FIBER REINFORCED PANEL (FRP-1) INSTALLED AROUND DRINKING FOUNTAINS, MOP SINK, AND THROUGHOUT TOILET ROOM(S) AND EGRESS PATHWAYS AS NOTED. PROVIDE MOISTURE RESISTANT FRP-1 W/ RB-1 TO 4'-0" AFF - REFER TO FINISH SCHEDULE.
8	PROCESSING AREA TO BE CLEARLY MARKED BY 2"W. RED COLORED PAINT - REFER TO FINISH SCHEDULE.
9	DOOR JAMB FINISH SHALL MATCH ADJACENT WALL BASE MATERIAL AND COLOR (UNO). PAINT BLACK (PT-4) WHERE ADJACENT TO BRICK SLIP VINYL (VN-1).
10	DOOR JAMB FINISH AT FITTING ROOM ENTRANCE PORTAL SHALL BE WRAPPED WITH BRICKSLIP VINYL (VN-1) - REFER TO ENLARGED DETAIL AND FINISH SCHEDULE.
11	HATCH INDICATES 30"W. EQUIPMENT AREA CLEARANCE TO BE CLEARLY MARKED BY 2"W. APPOXY PAINT - REFER TO FINISH SCHEDULE.

FINISH PLAN GENERAL NOTES

A. REFER TO FINISH SCHEDULE ON SHEET IS6.0 FOR FINISH LEGEND.
B. THE GC SHALL PROVIDE WATERPROOF MEMBRANE PER LANDLORD REQUIREMENTS IN ALL WET AREAS, INCLUDING, BUT NOT LIMITED TO, AREAS AROUND AND BENEATH DRINKING FOUNTAINS AND MOP SINK (WHERE APPLICABLE).
C. WITHIN THREE DAYS OF THE COMPLETION OF DEMOLITION, GC IS RESPONSIBLE FOR TESTING THE CONCRETE SLAB FOR MOISTURE CONTENT USING WAGNER RELATIVE HUMIDITY RAPID RH TESTING KIT. GC TO CONTACT PRODUCT MANUFACTURER PRIOR TO BIDDING FOR TESTING, EXISTING CONDITIONS RECOMMENDATIONS AND COMPLETE APPLICATION INSTRUCTIONS. GC MUST PROVIDE ADD ALTERNATE BID ON BID FORM. REFER TO MOISTURE CHART ON THIS SHEET FOR TESTING REQUIREMENTS & PRODUCT SPECIFICATIONS.
D. AFTER REQUIRED MOISTURE AND RELATIVE HUMIDITY TEST RESULTS ARE RECEIVED, GC IS RESPONSIBLE FOR PROVIDING A LEVEL CONCRETE SLAB PRIOR TO FLOOR INSTALLATION. GC MUST FOLLOW MANUFACTURER RECOMMENDATIONS AND INSTRUCTIONS FOR SUITABLE SUBSTRATES, FLOOR PREPARATION AND APPLICATION. GC TO PROVIDE BID ON BID FORM FOR THE FOLLOWING:
   - FOR MINOR SURFACE CONCRETE DEFECTS, PATCHING, SMOOTHING AND FEATHERING; RECOMMENDED PRODUCTS INCLUDE:
     *ARDEX - FEATHER FINISH: SELF-DRYING, CEMENT BASED FINISHING UNDERLAYMENT
     *MAPEI - PLANIPREP FF: PREMIUM SKIMCOATING AND PATCHING COMPOUND
     *MAPEI - PLANIPATCH: FAST-SETTING, POLYMER-MODIFIED, CEMENT-BASED PATCHING COMPOUND
   - FOR MAJOR CONCRETE DEFECTS AND SELF-LEVELING REPAIR; RECOMMENDED PRODUCTS INCLUDE:
     *ARDEX - K-15: SELF-LEVELING SUB-FLOOR SMOOTHING COMPOUND
     *MAPEI - PLANIPATCH PLUS SYSTEM: AN EMBOSSING LEVELER
     *MAPEI - ULTRAPLAN 1 PLUS: HIGH-PERFORMANCE, QUICK-SETTING, SELF-LEVELING UNDERLAYMENT.
E. ALL EXPOSED CONCRETE (THAT IS NOT RECEIVING A FLOOR FINISH) IS TO BE SEALED WITH JOHNSON WAX PROFESSIONAL: FORTIFY HARD SURFACE FLOOR SEALER, OR APPROVED EQUAL (WHERE APPLICABLE).
F. REFER TO INTERIOR ELEVATIONS FOR BASE AND WALL FINISH LOCATIONS.
G. LUXURY VINYL FLOORING MATERIALS - GC IS RESPONSIBLE FOR FOLLOWING THE MANUFACTURER'S INSTRUCTIONS FOR CLEANING AND SEALING.
H. AFTER BASE AND TRIM INSTALLATION, GC TO PATCH NAIL HOLES USING MATCHING COLORED CAULK.
I. ALL FLOOR TILES TO BE SLIP RESISTANT IN ACCORDANCE WITH ACCESSIBILITY GUIDELINES OR MOST STRICT GOVERNING CODE.
J. ALL SALES FLOOR FINISHES TO EXTEND TO HEIGHT REFERENCED ON ELEVATIONS. PAINT EXPOSED SURFACES ABOVE (PT-3). REFER TO INTERIOR ELEVATIONS.
K. ELECTRICAL AND DATA RECEPTACLE COVER PLATES TO BE: WHITE, PLASTIC AT (PT-1) WALLS MATTE SILVER PLASTIC SOCKETS AT (PT-2) + (WP-1) WALLS, BLACK PLASTIC SOCKETS AT (MT-1) + (PT-3)
L. METAL SCREEDS TO BE SST UNO.
M. PROVIDE LEVEL 4 FINISH AT SALES FLOOR WALLS, REFER TO SPECIFICATIONS FOR REQUIREMENTS.
N. GC TO INSTALL CEMPANEL WITH THE FOLLOWING: NAIL GUN: TACWISE A6425KHH HEADLESS PINNER OR SIMILAR TRIGGER ACTIVATED NOT PRESSURE ACTIVATED GUN. NAILS: RAPESCO A62/38MM HEADLESS PINS. NOTE: LOW PRESSURE COMPRESSOR - 120PSI APPROX.
O. WALLS/SUBSTRATE BEHIND THE SHOPFRONT, ELEMENTS-LIGHTBOXES, DIBOND PANELS AND CEMPANELS TO BE PAINTED (PT-4) .
P. GC TO PROTECT TILE FLOORING FROM DAMAGE DURING FIXTURE DELIVERY AND INSTALLATION.
Q. GC TO PROVIDE AND INSTALL CRACK ISOLATION/WATERPROOF MEMBRANE AT ALL AREAS OF PORCELAIN, CERAMIC AND MARBLE TILES. 'HYDROBAN' BY LATICRETE. PROVIDE 'LATASIL' SEALANT @ ALL AREAS OF EXPANSION JOINTS IN SUBSTRATE PRIOR TO INSTALLATION OF 'HYDROBAN'.
R. PAINTER SHALL BE RESPONSIBLE FOR THE REMOVAL OF HARDWARE, SWITCH AND OUTLET COVERS, ETC, AND REINSTALLATION OF SAME AFTER PAINTING.
S. AT COMPLETION OF PAINTING, ALL PAINT MATERIALS AND EQUIPMENT SHALL BE REMOVED, ALL PAINT SPOTS REMOVED, AND ALL AREAS THOROUGHLY CLEANED. ANY DIRT OR DEBRIS CAUSED BY WORK SHALL BE CLEANED UP AS WORK PROGRESS.
T. RETOUCH OR REFINISH SURFACES DAMAGED BY SUBSEQUENT WORK AS DIRECTED BY GENERAL CONTRACTOR. THE COST OF SUCH RESTORATION WORK SHALL BE BORNE BY THE CONTRACTOR.
U. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER PROTECTION AGAINST DAMAGE TO EXISTING FURNITURE, ADJACENT FINISHED WORK, FLOORING, ETC. IF APPLICABLE.
V. PLACE EXCESS FLOORING ON A TOP SHELF IN THE STOCK ROOM.

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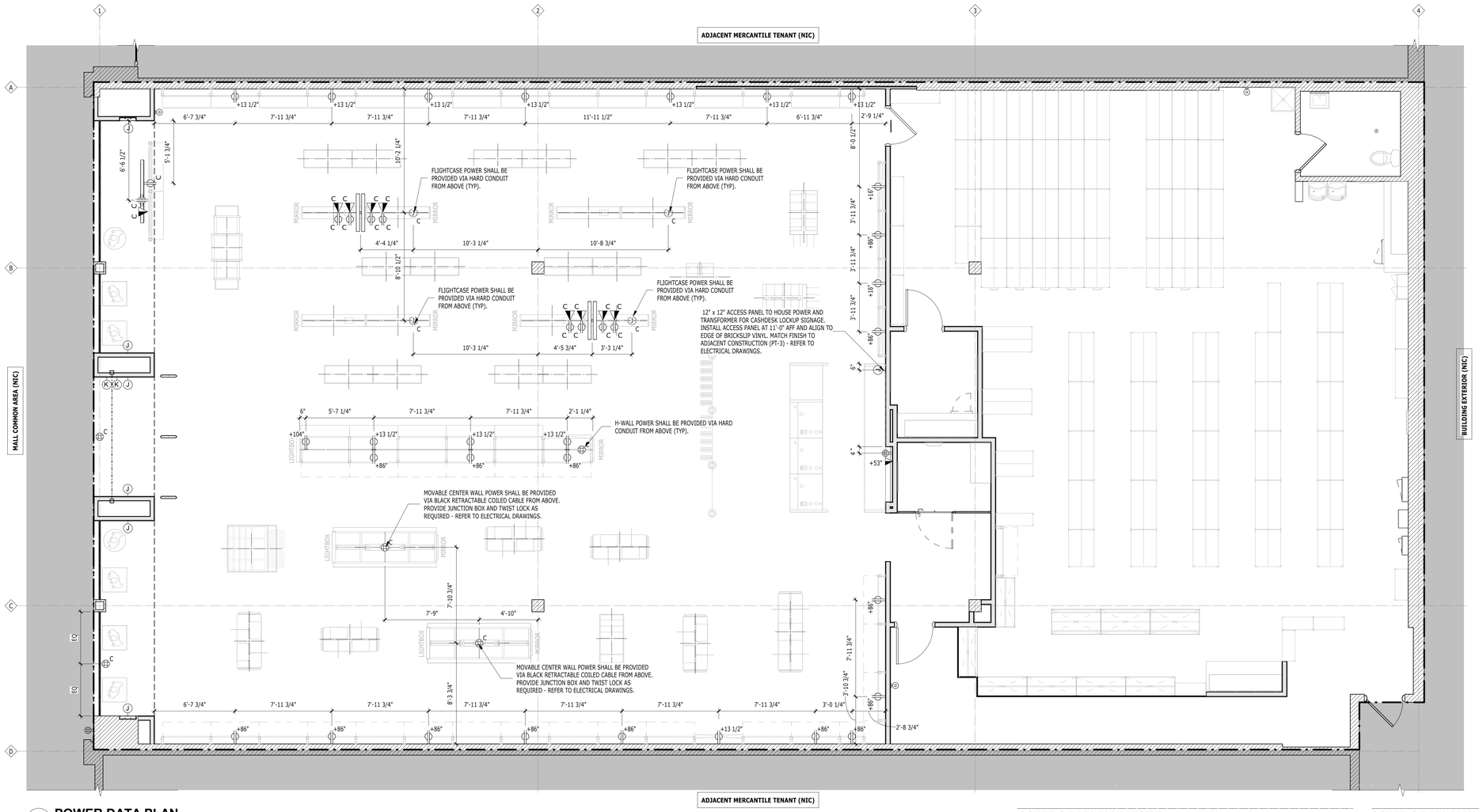
REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912178
STATE OF ARKANSAS

REVISION DATES
12/05/2025
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PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

FINISH PLAN

A7.0



1 POWER DATA PLAN
A8.0 SCALE: 1/4" = 1'-0"

POWER & DATA PLAN LEGEND

SYMBOL	DESCRIPTION
	FLUSH FLOOR MOUNTED GROUNDED DUPLEX RECEPTACLE W/ COVER, SEE ELECTRICAL DRAWINGS.
	DUPLEX WALL RECEPTACLE. SEE ELECTRICAL DRAWINGS FOR MOUNTING HEIGHT.
C	DUPLEX CEILING RECEPTACLE. SEE ELECTRICAL DRAWINGS.
	FLUSH FLOOR MOUNTED GROUNDED QUAD RECEPTACLE W/ COVER, SEE ELECTRICAL DRAWINGS
	QUAD WALL RECEPTACLE. SEE ELECTRICAL DRAWINGS FOR MOUNTING HEIGHT.
C	QUAD CEILING RECEPTACLE. SEE ELECTRICAL DRAWINGS.
	FLUSH FLOOR MOUNTED DATA RECEPTACLE. SEE ELECTRICAL DRAWINGS.
	WALL MOUNTED DATA RECEPTACLE. SEE ELECTRICAL DRAWINGS.
C	CEILING MOUNTED DATA RECEPTACLE. SEE ELECTRICAL DRAWINGS.
J	FLUSH FLOOR MOUNTED J-BOX. SEE ELECTRICAL DRAWINGS.
J	WALL J-BOX. SEE ELECTRICAL DRAWINGS.
JC	CEILING MOUNTED J-BOX. SEE ELECTRICAL DRAWINGS.
K	KEY SWITCH FOR ROLLING GRILLE.
K	KEY SWITCH AND EMERGENCY PULL FOR ROLLING GRILLE.

POWER & DATA PLAN GENERAL NOTES

A. ELECTRICAL AND DATA RECEPTACLE COVER PLATES TO BE: WHITE, PLASTIC AT (PT-1) WALLS; MATTE SILVER PLASTIC SOCKETS AT (PT-2) + (VN-1) (BRICKSLIP VINYL) WALLS; BLACK PLASTIC SOCKETS AT (MT-1) + (PT-3).
B. REQUIRED STOREFRONT POWER SUPPLIES LOCATED WITHIN 18" OF STOREFRONT GLAZING SHALL BE INSTALLED FOR EVERY 12'-0" (6'-0") OF LINEAR GLAZING PER BUILDING CODE. REFER TO ELECTRICAL DRAWINGS.
C. REFER TO ELECTRICAL DRAWINGS FOR ALL CASHDESK POWER, DATA, AND TRENCHING REQUIREMENTS.
D. REFER TO ELECTRICAL DRAWINGS FOR ALL BACK OF HOUSE POWER AND DATA DEVICES.
E. INTERMEDIATE CLEANERS SOCKETS TO BE LOCATED THROUGHOUT BACK OF HOUSE, INCLUDING MEZZANINE.
F. FIELD VERIFY LOCATION OF EXISTING WIRELESS DOORBELL; CONFIRM PROPER WORKING ORDER AND CONFIRM FINAL LOCATIONS FOR TWO (2) CHIMES IN BOH AREAS WITH TENANT.
G. REFER TO ELECTRICAL DRAWINGS AND THE A6.0-SERIES DRAWINGS FOR POWER & DATA AT MANAGER'S OFFICE, STAFF AREA, AND RECEIVING DESK.

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REGISTERED ARCHITECT
SCOTT BOFINGER
No. 9121715
STATE OF ARKANSAS

REVISION DATES
12/05/2025
ORIGINAL ISSUE DATE

PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

POWER AND DATA PLAN

A8.0

TECHNICAL SPECIFICATIONS

DIVISION 0 – CONTRACT REQUIREMENTS

005000 CONSTRUCTION CONTRACT

A. Furnished by the Owner under separate cover.

B. References to the "Owner" shall mean Finish Line.

007200 GENERAL CONDITIONS

A. Use General Conditions agreed to by the Owner and the General Contractor.

B. References to the "Owner" shall mean Finish Line.

DIVISION 1 – GENERAL REQUIREMENTS

011000 SUMMARY

A. Definitions:
1. Landlord: Building Owner.
2. Owner: JD Sports

B. Special Work Requirements:
1. Obtain a copy of, and comply with, all design and construction requirements of the Landlord. Notify Owner immediately in the event that Landlord's requirements conflict with requirements of the Contract Documents.
2. Use of Premises:
   a. Coordinate use of premises under Owner and Landlord requirements, and in accordance with the requirements of jurisdictional code authorities.
   b. Limit use of premises to only those areas involved in the construction operations and as required for access.
   c. Occupancy Requirements: Adjacent tenant spaces may be occupied. Cooperate with the Owner and the Landlord to minimize conflict, and to facilitate the operations of adjacent tenants.
   d. Perform work during normal working hours, unless directed otherwise by the Owner.

C. Separate Work: Certain items will be furnished and installed by others. These items are noted on the Drawings as "By Owner's Vendor" or "(FOIO)". Perform work so as to allow the performance of work by other contractors.

D. Items Furnished by Owner for Installation by the Contractor:
1. Certain items will be furnished for installation by the Contractor. These items are noted on the Drawings as (FOIC).
2. Coordinate work to facilitate installation of these items.
3. Finish Line Responsibilities:
   a. Arrange for and deliver shop drawings, product data, and samples to Contractor.
   b. Arrange and pay for product delivery to site.
   c. Arrange for replacement of damaged, defective, or missing items.
   d. Arrange for manufacturers' warranties, inspections, and service.
4. Contractor's Responsibilities:
   a. Review shop drawings, product data, and samples.
   b. Schedule and coordinate deliveries; receive and unload products at site; inspect for completeness, for damage, jointly with Finish Line.
   c. Handle, store, protect, install and finish products.
   d. Repair or replace items damaged by Work of this Contract.
   e. Coordinate and provide for the installation of all fixture requirements including power and data, within all new or renovated areas.

E. Applications for Payment: Submit Applications for Payment in accordance with the General Conditions for Construction.

F. 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.
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. Seal penetrations through floors, walls, and ceilings.

G. Applicable Codes: Conform to the codes listed on the Drawings.

H. Request for Information:
1. A Request for Information (RFI) is a request from the Contractor directed to the Architect for clarification, interpretation, or direction regarding the Work as described by Contract Documents.
2. Coordinate and submit in timely manner so as not to impede delivery, work, and other conditions that may be detrimental to construction progress.
3. Use Architect's "Request for Information" form or another form as approved by the Architect.
4. Allow sufficient time in construction schedule for Architect's response to the RFIs.

I. Existing Utilities:
1. The Architect or the Owner assumes no responsibility for the completeness or accuracy of existing utility line information. Utility information shall be verified by the Contractor.
2. Unless otherwise required, maintain all existing utilities undisturbed during progress of work.
3. Where temporary utility shutdown is required for the performance of the work, schedule and coordinate with the Owner/Landlord Building Manager. Should the Contractor in the performance of the work, disturb, disconnect or damage any existing utilities required to remain in service, all expenses arising from such disturbance, replacing or repair thereof shall be borne by the Contractor.
4. Maintain and operate utilities systems to assure continuous service, except as otherwise approved by the Owner/landlord Building Manager. Give minimum 7 days notice of proposed utility shutdowns.
5. Obtain approval from the Owner/landlord Building Manager prior to cutting any utility lines.

J. Additional Conditions:
1. Scope of Work: As defined in the Agreement and indicated on the Drawings. Unless otherwise noted or directed, items scheduled and items indicated in the technical specifications shall only be required to the extent indicated on the Drawings. This shall not be interpreted to exclude accessories and procedures related to those items, as specified, and as necessary to complete the work.
2. Definitions:
   a. Where "as shown," "as detailed," or words of similar meaning are used, references to the Drawings are intended unless stated otherwise.
   b. Where "as directed," "as required," "as selected," "approved" or words of similar meaning are used, it shall be understood that "by the Architect" follows unless stated otherwise.
   c. "As necessary" shall be understood to mean "as necessary for a complete and fully functioning installation in accordance with requirements of the Contract Documents, applicable codes and jurisdictional requirements, and accepted trade practices.
   d. "Furnish" means "Contractor shall procure, pay for, and deliver"; "install" means "Contractor shall set in position and connect or adjust for final use"; "provide" means "Contractor shall furnish and install."
   e. Where "includes," is used, it shall be understood that items following may not be a complete list of components to the exclusion of other items not listed, but which may be reasonably inferred as necessary to complete the work.

012200 UNIT PRICES

A. Summary: Identification and description of Unit Prices.

B. General Requirements:
1. Unit Prices will be exercised at the option of the Owner.
2. Prices stated for each Unit Price shall include all costs for the construction covered by the Unit Price including overhead and profit.
3. Unit Prices shall be valid for the duration of the Contract.
4. The Construction indicated on the drawings constitutes the Basic Bid Work. Amounts stated for unit prices constitute the amounts to be added or subtracted to the Contract Price for changing the Basic Bid Work.

C. Unit Price Descriptions:
1. No. 1 – Preparation of Existing Gypsum Board Surfaces for Installation of Wallcovering:
   a. Item: Where existing gypsum board wall surfaces are textured or unsuitable for installation of new wallcovering, state the price for one of the following at Contractors Option:
      1) Skim coat existing wall surfaces.
      2) Install 1/4 inch thick gypsum board over existing wall surfaces. Finish to a level specified in Section 092900 for wallcovering substrates.
   b. Unit Measure: Per square foot.
2. No. 2 – Leveling of Existing Floor Slab:
   a. Item: State the price for leveling and filling existing exposed floor substrate to specified tolerance, in accordance with section 035416. Price shall include labor, materials, and equipment necessary to recondition the floor including preparation, priming, and filling as specified.
   b. Unit Measure: Per square foot to a depth of 1/4 inch.
3. No. 3 – Tile Floor Crack Isolation Membrane:
   a. Item: State the price for providing crack isolation membrane as specified in Section 093000.
   b. Unit Measure: Per square foot.

012300 ALTERNATES

A. Summary: Administrative and procedural requirements for Alternates.

B. Alternate:
1. An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
   a. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

C. Procedures:
1. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
   a. Costs listed for each alternate include costs of related coordination, modification, or adjustment.
   b. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
   c. Include as part of each alternate, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar cost related to products and materials.
   d. Include as part of each alternate, if acceptance will add to or decrease Contract Time.
2. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule of Alternates:
1. Alternate No. 1 – Polished Cementitious Topping with ~~Painted~~ Floor Marking Tape Stripes.
   a. Base Bid: Polished concrete floor with ~~painted~~ floor marking tape stripes.
   b. Alternate: In the event polishing of existing concrete floor is not feasible, install polishable cementitious topping in accordance with Section 033536, and floor marking tape striping in accordance with Section 109013. Locations as indicated. ~~Paint cementitious topping floor stripes as indicated.~~
2. Alternate No. 2 – Tile Flooring with ~~Painted Cementitious Topping~~ Floor Marking Tape Stripes.
   a. Base Bid: Polished concrete floor with ~~painted~~ floor marking tape stripes.
   b. Alternate: In the event concrete floor polishing is not allowed by landlord, install floor tile in accordance with Section 093000 and ~~cementitious topping floor stripes in accordance with Section 033416. Paint cementitious topping floor stripes as indicated~~ floor marking tape striping in accordance with Section 109013. Locations as indicated.

013119 PROJECT MEETINGS

A. Pre-construction Meeting:
1. Prior to commencing construction, administer a preconstruction meeting to discuss the methods proposed to perform the work. Schedule meeting a minimum of 10 days prior to construction unless otherwise approved or indicated.
2. Address scheduling, utility shutdown times, demolition procedures, protective enclosures, barricading, construction sequencing and phasing, work times, access, security, and all other construction issues which would affect the operation, use, and appearance of the building.

B. Progress Meetings: Attend progress meetings called by Architect and/or Finish Line throughout the progress of the work.

C. Pre-installation Meeting: 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.

D. General Contractor is responsible for all Meeting Agenda, Meeting Minutes, and distribution thereof.

013300 SUBMITTAL PROCEDURES, SCHEDULES AND SHOP DRAWINGS

A. Submittal Procedure:
1. Identify deviations from Contract Documents. Leave space for Contractor and Architect review stamps.
2. Review and sign each submittal prior to submittal to Architect. Unsigned submittals may be returned without review.
3. Transmit each item to Architect unless directed otherwise. Include project name, Contractor name, subcontractor or supplier name, and drawing sheet, detail number, or specification section number corresponding to the submittal as appropriate.
4. Make submittals as required to cause no delay in the Work. Allow sufficient time for possible revision and resubmittal of rejected submittals.
5. Revise and resubmit rejected submittals as required to obtain approval.

B. Progress schedule, vendor schedule, submittal schedule, Schedule of values, and progress photos: Submit the following to Architect and Owner.
1. Progress Schedule: Submit horizontal bar chart with separate bar for each major trade or operation, identifying first work day of each week.
2. Vendor Schedule: Submit list of Owner's Vendors indicating name of Vendor, Contact Name and Phone Number, and date of arrival on site.
3. Submittal Schedule: Submit List of Submittals required by Specifications and indicate Specification Section and Date required for submittal. Allow time for Architect and Consultant reviews and resubmittal as may be required.
4. Schedule of Values:
   a. Submit typed schedule on form as approved by Architect.
   b. Subdivide into each major trade or category of work.
   c. Include a line item amount for each Allowance if applicable.
   d. Include in each line item a directly proportional amount of Contractor's overhead and profit.
5. Submit progress, vendor and value schedules within 5 days after Notice to Proceed.
6. Submit revised schedules with each Application for Payment; revised schedules shall reflect changes, including change orders, since previous submittal.
7. Submit progress photos weekly using template provided by the architect or as approved.

C. Shop Drawings, Product Data and Samples:
1. Shop Drawings:
   a. Submit shop drawings in the form of electronic copies or 2 legible hard copies.
   b. Unless specified otherwise, shop drawings shall show quantities, materials, details of assembly, adjacent construction, dimensions, and other appropriate information to fully illustrate the work.
2. Product Data:
   a. Submit product data in the form of electronic copies or 2 legible hard copies. Mark each copy to identify applicable products, models, options, copies or 2 legible hard copies. Mark each copy to identify applicable products, models, options, and other data; supplement manufacture's standard data to provide information unique to the work.
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.

D. Certificates: Submit the original signed version to Architect.

014500 QUALITY CONTROL

A. Standards:
1. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
2. Perform work to meet or exceed the requirements of applicable codes, ordinances, laws, regulations, safety orders, and directives from authorities having jurisdiction over the work.
3. Accessibility: Equipment, accessories and work shall be in accordance with Federal, State and local codes with respect to handicap accessibility, and with The Americans with Disabilities Act (ADA). The more restrictive code shall apply.
4. Perform work with persons qualified to produce workmanship of specified quality.
5. Install products in accordance with the manufacturer's recommendations. Where conflict exists between manufacturer's recommendations and the specified requirements, notify Architect immediately.

B. Examination Prior to Installation:
1. Prior to starting work of each trade or location, carefully inspect existing conditions and installed work of other trades, and verify that such work is compatible and complete to the point where new work may properly commence. Notify the Architect of conditions detrimental to the proper and timely completion of the work.
2. Do not begin installation until unsatisfactory conditions are resolved. Beginning work constitutes acceptance of existing site conditions and responsibility for defective installation caused by prior observable conditions.

C. 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.
6. Schedule to permit time for review and adjustment as necessary.

D. 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 temporary facilities and controls with Owner and the Landlord.
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.
3. Heating and Ventilation: Permanent system may be used. Owner will pay for the cost of energy used. Take reasonable measures to conserve energy.
4. Telephone.
5. Water: Utilize existing facilities. Owner will pay for water used. Take reasonable measures to conserve water.
6. Sanitation: Existing facilities may be used by construction personnel prior to project turnover, subject to thorough cleaning and repair as necessary to leave facilities in new condition. When existing facilities are not operational or accessible, provide suitable portable sanitation units.

B. Controls:
1. Dust Control: Provide temporary enclosures as required to prevent penetration of dust into occupied areas separate from work areas, to prevent damage to operating systems and components, and to create environmental conditions necessary for the proper installation of materials and systems.
2. Safety Barriers: Provide and maintain, all lawful and necessary barricades, railings, lights, warning signs, signals, and precautions as may be required to safeguard persons from injury.
3. Smoking: Smoking shall be prohibited in all interior spaces.
4. Noise Control: Provide necessary precautions as required by the Landlord.
5. Construction Cleaning:
   a. Control accumulation of waste materials and rubbish. Periodically dispose of off-site.
   b. Maintain areas free of dust and other contaminants during finishing operations.
   c. Clean and sweep site daily.

C. Maintain pedestrian and vehicular access to site and within site to provide uninterrupted access.

D. Fire Safety: Comply with applicable provisions of the IFC for fire safety during demolition and construction operations.

E. Temporary Construction:

1. Obtain approval from Architect and/or Landlord for modifications to existing systems or facilities not indicated.
2. Barricade:
   a. Provide full height barricade to separate construction area from exterior or mall concourse.
   b. Barricade shall conform to Landlord's requirements. When no requirements exists, the barricade shall conform to the following:
      1) Barricade shall consist of metal stud framing and gypsum board or plywood toward the public side. Paint to match color as directed by the Landlord.
      2) Provide locked door if required for access to the construction area. If a door is required, it must swing in.
   c. Remove barricade in accordance with Section 017700.
3. 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. Protection: Protect existing and new construction from damage caused by construction operations; provide protective covering to protect surfaces, as appropriate.

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, stored in accordance with Manufacturer's instructions, until ready for installation.

B. General Installation Requirements
1. Install each product in accordance with the product manufacturer's instructions, as supplemented by the specifications. Where manufacturer's installation tolerances are special or more restrictive than those specified, manufacturer's instructions shall govern.
2. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by Contract Documents.
3. Distribute copies of manufacturer's instructions to parties involved in the installation.
4. Maintain one set of complete instructions at the job site during installation and until completion.
5. Protect installed components and products from damage. Components and products which are damaged shall be replaced or repaired to like-new condition.

C. Product Options
1. Product Specified by Reference Standards or by Description Only. Provide product meeting those standards.
2. Product Specified by Naming One or More Manufacturers with an "or approved" provision: Use specified product or submit a request for substitution in accordance with the specified substitution requirements. When approved a substitute product may be used.
3. Product Specified by Naming One or More Manufacturers Without Provision for Substitution: No substitution will be allowed, except as specified under the Article on Substitutions.
4. Basis of Design
   a. Specifications naming products as the "Basis of Design" are not intended to imply preference and should not be construed as restrictive. The product named as basis of design is deemed suitable for use as indicated with regard to characteristics such as function, performance, size, color, texture, pattern, strength, and configuration.
   b. Where other manufacturers are named, they are deemed to make products of comparable quality with similar characteristics. There is no implied warranty that standard products of other named manufacturers are suitable for the work without modification. The Contractor is responsible for assuring coordination of the product as if no "basis of design" had been named.
   c. Unless otherwise specifically noted, where salient attributes are listed with a numerical value, without qualification such as "maximum," "minimum," or statement of an acceptable range, then values within 10 percent of those specified will be considered acceptable.
   d. Products of manufacturers not named in the specification may only be submitted subject to product substitution requirements described elsewhere in these specifications.

D. Product Substitutions:
1. Intent: The Contract Documents require consistent character and quality of design. All components, including visible items of mechanical and electrical equipment, have been selected for a coordinated design in relation to the overall project appearance, function, and performance. Proposed substitutes which in the Architect's opinion would be out of character, obtrusive, or otherwise inconsistent with the design intent, will not be approved.
2. Furnish products specified, except where "or approved" is used; substitute products may be submitted to Architect for approval.
3. 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 Owner's best interest by providing a cost savings or schedule benefit.
4. Document each substitution request on substitution request form as supplied by the Architect. Provide complete data substantiating compliance of proposed substitution with contract documents.
5. A substitution request constitutes a representation that Contractor:
   a. Has investigated proposed product and has determined that it meets or exceeds performance of the specified product, in all respects.
   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 that may subsequently become apparent.
   e. Agrees to pay all costs of redesign related to the substitution.
6. Substitutions will not be considered when they are indicated or implied on shop drawings or product data submittals.
7. The Architect will determine acceptability of proposed substitution, and will notify Contractor of acceptance or rejection within a reasonable time.

E. Bidder-Designed Items:
1. Items designated in the Contract Documents as "Bidder-Designed" are documented as necessary to describe design intent. The Contractor shall be responsible for the final design, engineering, permitting (if required by law), furnishing, and installation of the complete item, including components required to yield a fully functioning, structurally stable, and warrantable item in compliance with documented design intent, and applicable building codes.
2. Except as specifically indicated, the Contractor shall be responsible for interface of bidder designed items with other components of the project, including connection to utilities if appropriate.
3. Submittals for each bidder designed item shall indicate the scope of the bidder design work in detail sufficient to clearly describe interface with other items or work.

017329 CUTTING AND PATCHING

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. Major patching procedures shall be reviewed with the Building Owner, prior to proceeding.

D. Existing Sprayed Fireproofing: Patch and repair existing sprayed fireproofing to match the fire rating of the existing construction. Hand patch using UL-approved materials and procedures.

E. Cutting of Concrete or Masonry:
1. Concrete and masonry shall be sawcut or core-drilled.
2. Limit trenches cut in slabs-on-grade to a maximum width of 2 feet, unless approved otherwise by the Architect.

F. Patching of Concrete Slabs on Grade:
1. Ensure that below grade construction is complete in the slab area to be patched.
2. 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.
3. Recompact existing subgrade to 95 percent of maximum dry density as determined by ASTM D1557.
4. Drill and epoxy reinforcing dowels as indicated on the Structural Drawings.
5. Unless otherwise indicated, patch slab with concrete having a minimum 28-day strength of 3000 psi; maximum water/cement ratio of 0.42. Use superplasticizer admixture as necessary for workability.
6. Finish concrete to match adjacent surfaces.

G. Patching of Abandoned Core Drills:
1. Patch with non-shrink grout.
   a. Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents; minimum compressive strength of 7000 psi in 28 days. Conform to the following:
      1) Grout shall be non-bleeding.
      2) ASTM C1107, Grade B.
      3) Fluid consistency (flow cone) as measured by 25-30 second flow per ASTM C939 at temperature extremes or 40 degrees F and 90 degrees F.
      4) Working time not less than 30 minutes at both of the noted temperature extremes.
2. Trowel flush with adjacent concrete surfaces. Match adjacent finish.

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. Closeout Procedures:
1. Comply with procedures stated in General Conditions of the Contract for Substantial and Final Completion.
2. Owner's Review and Punchlist:
   a. One week after substantial completion, the following shall be complete and ready for Owner's inspection:
      1) All Work under this contract except minor punchlist items.
      2) Completed storefront and entrance doors including application of protective Kraft paper on all glazing.
      3) Subject to compliance with Landlord's requirements, removal of temporary construction barricades.
3. Submit all certificates of approval issued by the governing authorities, including, without limitation, the following:
   a. Certificate of Occupancy.
4. Prior to final payment, submit the following affidavits using the forms listed below:
   a. Contractors Affidavit of Payment of Debts and Claims AIA Document G706.
   b. Consent of Surety for Final payment AIA Document G707.
   c. Contractors lien release, and lien releases from each subcontractor; Contractors Affidavit of Release of Liens AIA Document G706A.
5. Submit final Application for Payment identifying total adjusted contract sum, previous payments, and sum remaining due.
6. All Closeout Procedures shall be complete within 45 calendar days of store opening.

C. Project Record Documents:
1. Maintain a complete set of record drawings which 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.
6. Provide Record Drawing Storage Tube constructed from 4" plastic pipe with end caps and provision for wall mounting. Mount on wall in Stockroom at location as directed by the Architect.

D. 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.

E. Operation and Maintenance Data (two copies required, separate binders):
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.
4. Include copies of submittals where submittals are required by individual sections.
5. Provide one separate copy of the following items, punched for insertion in Owner's 3-ring binder. Submit to store Manager:
   a. Contractor's Phone List
   b. Alarmed Panic Exit Hardware Instructions (use and battery replacement)
   c. Lighting Controls O & M Manual (lighting time clock programming)
   d. HVAC O & M Manual (thermostat controls and time clock programming)

F. Warranties, Guarantees and Bonds: (two copies required, separate binders):
1. Submit 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. Each guarantee shall be signed, and:
   a. State that the work under guarantee was installed in accordance with the Contract Documents.
   b. State the work will be free from defects in workmanship and material for the period of time specified.
   c. State that defects will be promptly repaired without additional cost to the Owner.

G. Spare Parts and Maintenance Materials: 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 – EXISTING CONDITIONS

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.

B. Protect existing structural members.

C. During demolition operations, notify the Architect of all conditions which differ substantially from those indicated, specified, or expected. Perform no demolition in such areas, unless approved by the Architect.

D. Provide bidder designed 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 in accordance with Section 015000, and local disposal and recycling requirements. Do not overload existing construction to remain with demolished materials.

F. Carefully remove, store, and protect all materials and components to be reused.

G. Where possible without damage, remove, store, and protect existing materials and components not noted for removal, which if removed, would facilitate the new construction and reconditioning.

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.
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 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.
5. Indicate location of disconnected utilities on the Project Record Drawings.

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 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 approved otherwise.

DIVISION 3 – CONCRETE

033536 POLISHED CONCRETE FINISHING

A. Summary: Bonded abrasive polishing of existing concrete slabs as follows:
1. Surface preparation.
2. Application of liquid concrete hardener and densifier, and stain.
3. Grind and polish of floor to desired finish.

B. Related Sections:
1. 012300 - Alternates: Work described in this section.

C. System Description:
1. Multiple mechanical processes and accessories to provide a complete system and achieve specified finish.
2. Mechanical bonded abrasive grinding and polishing equipment, concrete repair and topping materials, concrete treatment densifiers.

D. Quality Assurance:
1. Qualifications of Installers: Use only installers certified by the manufacturer and who are thoroughly trained by the manufacturer, skilled in the work, and who are completely familiar with the systems specified.
2. Submit to Owner: Written certification, signed by manufacturer's representative, stating applicator as trained and qualified to perform work of this Section using proposed manufacturer's products, including qualification criteria.

E. Mock-up:
1. Provide minimum of 60 square feet of mock-up polished slab at location designated by the Architect, using same equipment and installer's personnel who will perform the actual work.
2. Mock-up to demonstrate surface finish, color variations, and level of workmanship. Include saw cut joint with joint filler as specified.
3. Approved mock-up may be retained and incorporated into the finished work.

F. Pre-Installation Conference:
1. Administer prior to starting the work.
2. Attendance:
   1) General Contractor.
   2) Polishing system installer.
   3) System manufacturer's representative.
   4) Other parties affected by the work.
3. Agenda:
   a. Review Contract Document requirements.
   b. Review requirements for assessment of sound substrate and subsequent remediation in the case of sub-standard conditions.
   c. Review requirements for environmental conditions and storage of materials.
   d. Review system manufacturer's preparation and application instructions including, but not limited to, the following:
      1) Condition of existing concrete floor and suitability for grinding and polishing.
      2) Application of cementitious polishable toping system if required.
      3) Details of each step of grinding, honing, and polishing operations.
      4) Application of liquid applied products.
      5) Protecting concrete floor surfaces until polishing begins.
      6) Sealing and protecting polished concrete floors after polishing is completed.
   e. Review conditions or techniques which would prevent the satisfactory application of the polishing system.
4. Reports: Record discussions, including decisions and agreements reached, and furnish copy of record to the Owner and each party in attendance.

G. Project Conditions:
1. Comply with the polishing system manufacturer's written instructions for age of cured concrete, substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting the floor finish.
2. Close areas to all traffic during and after polished concrete system application for the time period recommended by the system manufacturer.
3. Do not apply product when air, surface, or material temperatures are expected to fall below 40° F (4° C) within four hours of expected application.
4. Do not use on highly dense or non-porous surfaces.
5. Limit and control damage from excessive dust caused by grinding/polishing procedure.
6. Properly dispose of collected dust from polishing.

H. Warranty: Furnish manufacturer's standard warranty.

I. Maintenance:
1. Extra Materials: Furnish 5 gallons of the polishing system manufacturer's recommended compatible cleaning agent to onsite Owner personnel.

J. Approved Polishing System Manufacturer:
1. CTS Cement Manufacturing Corporation (Cypress CA; 800-929-3030). No Substitutions allowed.

K. Materials:
1. Stain: AmeriPolish, Inc. (Lowell, AR; 800-592-9320) "Surelock Dye" system as furnished by system manufacturer; color "Gray", diluted 4:1 with Acetone or Water, and accepted from mock-up.
2. Hardener/Densifier: Low-VOC silicate as furnished by system manufacturer and accepted from mock-up.
3. Finishing Sealer: System manufacturer's recommended topical sealer; low-VOC, non-film forming, stain resistant.
4. Polishing Overlay Topping System (ALTERNATE #1):
   a. Topping: CTS Cement, "TRU-PC" polished concrete self-leveling topping; natural color (no added dye or pigment).
   b. Primer: CTS Cement, "Rapid Set TXP – TRU Epoxy Primer"; two component, moisture and alkali insensitive, epoxy primer.
5. Surface Patching and Repair Material (when required for slab repair under Work of this Section): As recommended by the polishing system manufacturer.
6. Polished Concrete Flooring Transition:
   a. Transition Type – Portland Cement Underlayment Ramp:
      1) Materials used to install the ramp are as follows in ascending order from slab to top of ramp.
         a) Substrate Primer: Ardex BACA or EP-2000.
         b) Ramp Mortar Material: Ardex ERM Exterior Ramp Mortar.
         c) Acrylic Sealer: Ardex Concrete Guard.
      2) Provide tinting pigments to custom-match the finish color of the product.

L. Equipment:
1. Field Grinding and Polishing Equipment:
   a. A multiple head, variable speed, counter rotating, walk behind machine, of various size and weights, with bonded abrasive pads affixed to heads for the purpose of grinding concrete.
   b. Equipped with heavy-duty industrial HEPA filtration vacuum to capture and prevent concrete dust from escaping into interior spaces. Provide mandatory pre-separator for all metal bond cuts when grinding dry.
   c. Grinding and polishing equipment capable of generating at least 600 lbs head pressure.
2. Edge Grinding and Polishing Equipment: Hand-held or walk-behind machines which produces same results, without noticeable differences as field grinding and polishing equipment, designed to access areas adjacent to vertical surfaces and inside corners.
3. Burnishing Equipment: High speed walk-behind machines capable of generating 1000 to 2000 revolutions per minute and with sufficient head pressure of not less than 20 pounds to raise floor temperature by 20 degrees F.
4. Diamond Tooling: Abrasive tools that contain industrial grade diamonds within a bonded matrix (such as metallic, resinous, and ceramic) attached to rotating heads to refine the concrete substrate.
   a. Allowable Grinding/Polishing Diamonds (or approved equivalents):
      1) Metal Bonded Diamond Grit Sizes: 40, 80, and 150.
      2) Hybrid Style Diamond: 30, 50, 100 or approved equivalent.
      3) Resin Bonded, Phenolic Diamond Grit Sizes: 100, 200, 400, 800, and 1500 (or manufacturer's equivalent designations) as needed to achieve specified gloss.
   b. Progression of all polishing steps shall include sequential grit sizes that are not greater than twice the previous grit used.

M. Accessories
1. Neutralizing Agent: Tri-sodium phosphate or baking soda.
2. Water: Clear and potable.
3. Kraft Curing Paper: Conforming to ASTM C171, Type 1.1.1, non-staining, moisture retentive, as specified by the system manufacturer.
4. Semi-Rigid Joint Sealant: Rapid setting, two-component polyurea polymer liquid of 100% solids content with a minimum hardness of Shore A 75 (ASTM D2240) as recommended by the polishing system manufacturer; VOC compliant; colored to match the concrete.

N. Preparation:
1. Concrete Surface:
   a. Clean, smooth, and flat conforming to specified floor tolerances specified by Section 035416
   b. Free of chemicals, acids, curing compounds and other substances that may inhibit application of products specified by this section, including penetration of dyes.
   c. Required Tests:
      1) Measure pH according to method indicated in ASTM F 710. Notify the Architect of pH results lower than 8 and higher than 10.
      2) Perform relative humidity test using in situ probes in accordance with ASTM F 2170. Notify the Architect of results higher than 75 percent.
      3) Perform anhydrous calcium chloride test in accordance with ASTM F 1869. Notify the Architect of results higher than 8 pounds per 1000 square feet in 24 hours (MVER).
   d. Test results that are determined to be out of conformance with the polishing system manufacturer's acceptable limits shall be remedied to levels needed to attain warranty certification.
2. Clean concrete surfaces of dirt and other particulates and remove oil, stains, grease, adhesives, water repellants, and other substances that may be detrimental to work of this Section.
3. Protect adjacent concrete surfaces not receiving the work of this Section.
4. Dust Control: Seal off adjacent building areas and cover adjacent work to limit air-born dust migration from settling on surfaces and polluting other parts of building.
5. Conform to the system manufacturer's instructions and provisions of the Contract Documents to achieve appearance conforming to accepted mock-ups.
6. Polishing Overlay Topping (ALTERNATE #1):
   a. In the event polishing of existing concrete floor is not feasible, install polishable cementitious topping in accordance with Section 012300, Alternate #1.
   b. Mechanically prepare surface to ICRI CSP 3-5. Use of acid is prohibited.
   c. Clean and prime substrate, prior to pouring topping, in accordance with the topping manufacturer's installation instructions.
   d. Install cementitious topping to a 3/8 inch thickness in accordance with the manufacturer's instructions.

O. Installation:
1.

12. Final Finishing and Sealing
    a. Verify that the floor is dry and clear of debris prior to completion of the final polishing stages.
    b. Perform finish polishing of concrete floor slab using diamond polishing equipment to achieve uniform final finish, matching mock-up.
    c. Provide the system manufacturer's optional topical agent to seal the surface until the densifier can develop to its full potential.
    d. Final Polish: Using burnishing equipment and finest grit burnishing pads, burnish to uniform final sheen matching approved mock-up.
    e. Finish:
        1) Final Concrete Floor Finish: Conform to finish sheen and treatment as accepted by mock-up.
        2) Provide appearance similar to gloss sheen working up to a Level 3 – 1500 grit diamond polish.
            a) Reflective Clarity Reading: Not less than 65 according to ASTM D5767 prior to the application of sealers.
            b) Reflective Sheen Reading: Not less than 35 according to ASTM D523 prior to the application of sealers.
        3) Color: Provide system dye color as scheduled on the Drawings, and as approved in the mock-up
        4) Slip Resistance: Unless approved otherwise, Measured Dynamic Coefficient of Friction (DCOF) shall be not less than 0.30 (WET) at time of testing as measured using a Regan Scientific Instruments BOT-3000E Tribometer, in accordance with ANSI B101.3.

P. Field Quality Control
    1. Field Testing: Engage a qualified walkway auditor to perform field testing to determine if in-place floor finish complies with specified coefficient of friction.
    2. Slip Resistance Measurements:
        a. Take slip resistance measurements prior to Owner Possession.
        b. Test Method shall conform to ANSI/NFSI B101.3-2012.
        c. Provide a minimum of 2 tests for every 1000 SF of polished concrete floor area, with a maximum dimension between tests locations of 30 feet o.c.; provide even distribution of testing throughout.
        d. Collect and record slip resistance measurements on Floor Plan and submit with closeout documents as specified
        e. Within 24 hours of testing, notify the Architect of all non-conforming measurements.

Q. Protect finished floor from traffic for the duration required by the polishing system manufacturer.

035416 HYDRAULIC CEMENT UNDERLAYMENT

A. Summary:
    1. Cementitious underlayments for leveling of new or existing concrete floor substrates as necessary to meet specified tolerances.
    2. Cementitious toppings as necessary for leveling new or existing slabs at locations indicated to receive concrete sealer.
    3. ~~[Cementitious topping at floor stripe locations between floor tile in accordance with Alternate #2]~~
    4. Ramps and tapers as necessary to align levels between dissimilar finishes.
    5. Ramps exposed in the final work.

B. Environmental Requirements
    1. Maintain surface and ambient temperature of between 50 and 80 degrees F for 24 hours before, during, and 24 hours after underlayment installation.

C. Materials:
    1. Fast-Setting Self Leveling Underlayment System: Self-leveling, pourable, cement based material, minimum 28 day compressive strength 3,000 psi when tested in accordance with ASTM C109; minimum bond strength 200 psi; one of the following.
        a. "UltraPlan 1 Plus" by Mapei Corporation (888-876-2734).
        b. "K-15" or "K55 Rapid" Self-Leveling Underlayment Concrete by Ardex Inc. (888-512-7339)
        c. "Level-Right" by Maxxon (800-356-7887).
        d. "84 Latilevel" thin pour, or "86 Latilevel" fast setting, or "86 Latilevel" thick pour by Laticrete International, Inc. (800-243-4788)
    2. Fast-Setting Trowelable Underlayment System:
        a. "Mapecem Quick Patch" or "Planiprep SC" by Mapei Corporation (888-876-2734l).
        b. "SD-P" Fast-Setting or "SD-F Feather Finish" underlayment by Ardex Inc. (888-512-7339).
        c. "Euco-Speed" by Euclid Chemical Company (800-321-7628).
        d. "Laticrete 220 Medium Bed Mortar" mixed with "Laticrete 3701 Latex Mortar Admix" by Laticrete International, Inc. (800-243-4788).
    3. Cementitious Toppings: For concrete surfaces at locations indicated to receive concrete sealer, floor paint, or not otherwise covered by flooring material; one of the following or approved:
        a. Interior Traffic Bearing Topping System: Self-Leveling; minimum 28 day compressive strength 6,000 psi:
            1) Ardex Inc. "SD-T" Self-Leveling Self-Drying Concrete Topping."
            2) Dayton Superior "Level Topping."
            3) ProSpec "Level Set Wear Topping."
        b. Interior Traffic Bearing Topping System: Trowelable; minimum 28 day compressive strength 5,000 psi.
            1) Ardex Inc. "SD-M" Trowelable, Self-Drying, cement based, Concrete Topping"; minimum 28 day compressive strength 5,000 psi.
        c. Colors: Gray where exposed in the final work, white where floor paint will be applied as final finish.
    4. Accessories: Furnish primers, patching compounds, and sand fillers as recommended by the underlayment manufacturer for the conditions of the project

D. Preparation
    1. Thoroughly mix underlayment materials for each type of product in proper proportions to achieve smooth homogeneous mix, free of lumps.
    2. 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.
    3. Inspect floor to verify that demolition is complete to the point where work may progress.
    4. Survey floor as necessary to set screeds and reference points, identify construction joints, and prepare for underlayment where floor does not meet specified tolerance requirements.
    5. Ensure that subfloor is clean, dry, hard, sound, and free of oils, or other substance which would affect proper bonding and curing. Shotblast surface as necessary to achieve a clean surface.
    6. Verify areas to be leveled are at or below final design elevation. When required, grind down high spots as necessary to meet specified tolerance requirements.

E. Application
    1. Install trowelable underlayment at locations where slopes are indicated and at other locations where tapered fill is necessary to align the finished surfaces of the various floor finish materials.
    2. Install self-leveling underlayment at existing concrete slab surfaces to correct slab flatness and levelness.
    3. Provide cementitious toppings at locations to remain exposed in the finished work or where floor paint will be applied.
    4. Set screeds, markers, and reference blocks. Set screeds at all construction and control joints to establish weakened plane joints in underlayment.
    5. Install underlayments and toppings in accordance with the manufacturers' recommendations. Where subsequent finishing of the material is required, float to level surface. Do not trowel.
    6. Apply primer to all areas to receive underlayment or toppings; repeat applications if necessary to achieve proper build.
    7. Mix materials and pour or pump and squeegee into place to achieve appropriate thickness. Provide fill thickness as necessary to align adjacent finish flooring surfaces.
    8. Cure in accordance with the manufacturer's instructions.

F. Tolerances:
    1. Typical: "Flat"; level to within 1/4" in 10 feet
    2. In Areas to Receive Floor Tile: "Very Flat"; level to within 1/8" in 10 feet from the required plane, with no more than 1/16" variation in 24" when measured from the high points in the surface.
    3. Ramps: 1/4" per foot slope, unless indicated or specified otherwise.

G. Cleaning: As work proceeds, clean up excess materials, rubbish, and splash.

DIVISION 4 – MASONRY

Not Used

DIVISION 5 – METALS

051200 STRUCTURAL STEEL FRAMING

A. Summary:
    1. Structural steel elements as indicated on the Structural Drawings.
    2. Baseplate grouting
    3. Priming and galvanizing of structural steel elements.

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. Include net weld lengths.

C. Certifications: Submit certification of materials with copies of mill reports for each heat of steel used.

D. Quality Assurance:
    1. Unless specified or indicated otherwise, work shall comply with current AWS and AISC Standards.
    2. The work of this Section is subject to testing and inspection as specified in Section 014500.
    3. Use only AWS certified welders.

E. Products:
    1. Steel Materials: As indicated on the Structural Drawings.
    2. Accessories:
        a. Welding Electrodes: E-70 series, low hydrogen, appropriate for use.
        b. Non-Shrink Grout: ASTM C1107; non-shrink, non-metallic type; one of the following:
            1) BASF "Masterflow 713 Plus."
            2) US Spec "GP Grout."
            3) The Euclid Chemical Company "NC Grout."
    3. Primers:
        a. Standard Primer: Modified alkyd; lead and chromate free; one of the following unless approved otherwise.
            1) "Azeron Primer Series 88HS" by Tnemec Company Inc. (Kansas City, MO; 816-483-3400).
            2) "Amercoat 5105" by Ameron Protective Coatings (Brea, CA; 714-529-1951).
            3) "Carbocoat 150HG" by Carboline Company (St. Louis, MO; 314-644-1000; 800-848-4645).
        b. Galvanizing Touch-up Paint: ZRC Worldwide: "Galvilite", "Cold Galvanized Compound", or approved.

F. Fabrication:
    1. Fabricate structural steel items in accordance with approved shop drawings.
    2. Shop fabricate in parts or sections as large as practicable.
    3. Fabrication of Elements to Receive Galvanized Coatings:
        a. Fabricate in accordance with the applicable requirements of ASTM A143, A384, and A385.
        b. All welding slag and burns shall be removed prior to galvanizing.
        c. Take care to avoid fabrication techniques which could cause distortion or embrittlement of the steel.
    4. 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 standard metal fabrications in exterior or moist conditions, unless otherwise indicated.
    5. 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) Surfaces to receive sprayed fireproofing.
            6) Surfaces to receive other special shop primers.

G. Erection:
    1. Embedded Items: Provide anchor bolts and templates, and other items as indicated, to other Sections for installation prior to placement of cast-in 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. Erect structural steel in accordance with approved shop drawings and AISC "Code of Standard Practice," Section 7.
    4. Welds: AWS D1.1.
    5. Cut holes by drilling only.
    6. Tolerances: Maximum deviation from plumb, level, and alignment not exceed 1 to 500.
    7. Base Plate Grouting: Set on leveling nuts to accurate elevations and grout solid with non-shrink grout.
    8. Cleaning and Touch-Up:
        a. Clean steel of oil or other contaminants as specified under Fabrication.
        b. Clean columns, beams, girders, and other members to receive sprayed-on fireproofing free of loose rust, heavy mill scale, oil, dirt or other foreign substances prior to application of fireproofing materials.
        c. Immediately after erection, clean field welds, bolted connections, and abraded areas and touch-up factory primed surfaces with same primer as used in shop; touch-up galvanized surfaces with zinc-rich primer.

054000 COLD-FORMED METAL FRAMING

A. Summary: wall types & structural drawings,
    1. Lightgage structural steel metal framing at exterior walls, as indicated on the at soffit and wall construction supporting storefronts, display windows, and signage elements.

B. System Description:
    1. Structural Design: As indicated on the Structural drawings.
    2. 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 additional structural steel members as required to support the loads imposed.

C. 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.

D. 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.

E. Components:
    1. Cold Formed Light-gage Steel Framing: ASTM A653; types as indicated on the structural drawings; G60 galvanized coating.
    2. Screws: ASTM C954; self-drilling, self-tapping; pan head; galvanized or fluoropolymer coated steel; as indicated on the structural drawings.
    3. Zinc Rich Touch-up Paint: ZRC Worldwide "Galvilite", "Cold Galvanized Compound", or approved.

F. Installation:
    1. Install lightgage structural framing in accordance with ASTM C1007, unless indicated or specified otherwise, and as indicated on the Drawings.
    2. Screw or weld each joint. Welds shall be in accordance with AWS D1.3.
    3. Metal framing members shall be saw or shear cut. No torch cutting is permitted.
    4. Construct corners with a minimum of 3 studs per corner.
    5. Additional fasteners as indicated on the Structural Drawings, and as required for a complete installation.
    6. Exterior and Interior Extruded Aluminum Trim: Extrude-a-Trim, Inc. (888-561-3822; www.extrude-a-trim.com); channel shapes in size and configuration as indicated on the Drawings, 1/16 inch minimum thickness; satin finish suitable for field painting in accordance with Section 099000, or provide powder coated shop finish as indicated on the Drawings.
    7. Adhesive: Commercial grade construction adhesive, interior and exterior rated; suitable for job conditions.
    8. Very High-Strength Structural Bonding Tape: 3M, "VHB Tape"; double stick, width as required.

D. Fabrication:
    1. Accurately fabricate work to the configurations indicated; fit to field conditions.
    2. Fabricate with clean lines, and free of bends and twists. Curved surfaces shall have smooth and uniform radii. Use material in sufficient thickness so that flat surfaces form true planes, free from oil canning.
    3. Leave no open joints, except where indicated or required for expansion and contraction. Exposed joints shall be uniform, straight, and hairline.
    4. Square edge returns with eased corners, at all wall panel and trim edges; weld and grind smooth prior to finishing.
    5. Welds shall have sufficient strength to withstand the loads applied.
    6. Unless indicated otherwise, provide concealed fasteners wherever possible. Where not possible, exposed fasteners shall match material and finish of adjacent finish materials. Fasteners shall be approved by the Architect.
    7. Use compatible materials, or provide isolation of dissimilar materials.
    8. Material thicknesses indicated are minimum. Provide heavier material as necessary to meet the specified fabrication requirements.
    9. Items to be Concealed from View: Fabricate as detailed; ease sharp edges. Furnish unfinished unless otherwise indicated.
    10. Fit items to be 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.

E. Finishes: As indicated on the Drawings
    1. Field Applied Finishes: Paint finish in accordance with Section 099000.
    2. Shop Finishes:
        a. Elements to Receive Galvanized Coatings:
            1) Fabricate in accordance with the applicable requirements of ASTM A143, A384, and A385.
            2) Remove welding slag and burrs prior to galvanizing.
            3) Surface Finish: The galvanized coatings shall be continuous, firmly adhered, smooth, and free from defects.
        b. Powder Coat: Shop applied polyester or fluoropolymer powder coating in compliance with AAMA 2603 for interior locations and AAMA 2605 for exterior locations, custom color as indicated on the Drawings. Coordinate with Owners fixture vendor for product and color.

F. Installation:
    1. Unless indicated otherwise, install items plumb and level. Install elements accurately in the positions indicated.
    2. Support work rigidly in position. Provide reinforcing anchors, and backing as detailed, and as otherwise necessary for secure attachment.
    3. Touch-up all surfaces damaged during installation. Patch all welds and damage marks with matching primer.
    4. Install metal fabrications in accordance with applicable requirements specified for fabrication.
    5. Isolate metal fabrications from dissimilar materials.
    6. Aluminum Trim Installation:
        a. Install aluminum trim with adhesive or VHB Tape; no exposed fasteners.

G. Special Installation for Unistrut:
    1. Coordinate layout with Landlord requirements; review overhead support locations with the Landlord prior to attempting installation.
    2. Install items plumb and level from overhead structural supports approved by the Landlord.

DIVISION 6 - WOOD AND PLASTIC

061000 ROUGH CARPENTRY

A. General
    1. Section includes
        a. Blocking.
        b. Sheathing.
        c. Plywood terminal back boards.
    2. Quality Assurance:
        a. 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.

B. Products:
    1. Dimension Lumber:
        a. Lumber shall be manufactured in accordance with PS 20, and shall be stamped and graded in accordance with SPIB, WWPA, WCLIB, or NLGA grading rules.
        b. Moisture Content: Kiln dried to 19% maximum moisture content, except for material whose least dimension is 4 inches thick or greater.
        c. Species: Southern Pine, Hem-Fir, Spruce-Pine-Fir (SPF), or Douglas Fir Larch, unless indicated or specified otherwise.
        d. Architectural Lumber Grades: Unexposed non-structural wood framing and blocking indicated on the Architectural Drawings shall be graded as follows:
            1) Blocking: "Utility - Light Framing," or better.
    2. Panel Materials:
        a. Miscellaneous Sheathing: APA Rated Sheathing; CD grade; Exterior; plywood or oriented strand board, unless approved otherwise; thicknesses as indicated.
        b. Termite Backboards: APA AC grade exterior; fire retardant treated.
    3. Accessories:
        a. Fasteners:
            1) Hot-dipped galvanized steel for exterior, high humidity locations.
            2) G-185 galvanized coating or stainless steel fasteners at treated wood locations.
    4. Wood Treatment:
        a. Wood Preservative (Pressure Treatment):
            1) Preservative treat all wood in contact with concrete, masonry, and moist conditions. Site treat sawn ends with preservative treatment.
            2) Preservative treat all wood and plywood at roof construction or other wood in moist conditions. Site treat sawn ends with preservative treatment.
            3) For above ground use, use AWPA certified Ammonium Copper Quaternium (ACQ) or Copper Hydroxide Sodium Dimethyldithiocarbamate (CDDC) waterborne preservative with 0.25 pounds per cubic foot of wood retention.
            4) Treated wood shall have a maximum moisture content of 19%.
            5) Treated wood shall bear the quality stamp of an inspection agency approved by the jurisdictional code authorities.
        b. Fire Retardant Treatment (At Types I and II Construction only):
            1) Fire retardant treat all interior concealed lumber and plywood, and other wood as indicated or specified. Provide exterior fireproofing at rooftop blocking, nailers, curbs, sheathing, and other locations subject to wetting during construction operations.
            2) All fire retardant treated wood materials shall bear a UL "FR-S" label, or a label from an approved inspection agency certifying that the material meets the requirements of AWPA C-20 Type A for lumber and AWPA C-27 Type A for plywood.
            3) Treated lumber shall be kiln dried to a maximum moisture content of 19%; treated plywood shall be kiln dried to a maximum moisture content of 15%.
            4) Approved Products:
                a) Interior Fireproofing: Clear finish product, Hickson Corporation "Dricon," Hoover Treated Wood Products "Pyro-guard," or Kopper Performance Chemicals "FirePRO".

C. Installation:
    1. Blocking:
        a. Install wood blocking to receive mechanical fasteners for support of electrical fixtures and equipment, cabinets, casework, doorstop plates, wood base, wainscots, coat hooks, and all other wall and ceiling mounted components, unless specified otherwise.
        b. Backing:
            1) Plywood backing shall be used in lieu of blocking at locations of wall-mounted standards, shelving and counters.
            2) Backing shall be mounted over face of studs beneath gypsum board and shall be continuous over entire plane of wall; 1/2 inch thickness.
            3) Secure backing with all edges on firm bearing.
    2. Sheathing:
        a. Secure sheathing with edges on firm bearing. Provide solid edge blocking between sheets.
        b. Fastening shall be in accordance with code requirements, unless indicated otherwise. Use screws when fastening into metal lightgage metal framing.
        c. Allow 1/8 inch spacing at ends and edges between panels, unless otherwise recommended by panel manufacturer.
    3. Plywood Terminal Backboards:
        a. Provide fire retardant treated plywood terminal backboard where indicated on the Drawings.
        b. Mechanically attach fire retardant treated plywood over gypsum board directly to metal studs.

064000 ARCHITECTURAL WOODWORK

A. Summary:
    1. Wood standing and running trim.
    2. Metal clad panels and trim.
    3. Installation of miscellaneous BOH casework furnished by the Owner.

B. References:
    1. Architectural Woodwork Institute / Architectural Woodwork Manufacturers Association of Canada / Woodwork Institute: Architectural Woodwork Standards (AWS), Current Edition.

C. Quality Assurance
    1. Qualifications of Installers: Use only journeyman finish carpenters who are thoroughly trained and skilled in the work, and who are completely familiar with the materials and quality standards specified. No allowance will be made for lack of skill on the part of workmen.

D. Materials:
    1. Lumber:
        a. Moisture Content: In accordance with AWI recommendations
        b. Concealed Framing Lumber: AWI Grade II pine, fir, hemlock, or other species as approved.
        c. Trim for Opaque Finish:
            1) Defects: Limit in accordance with AWS construction grade.
            2) Species: Natural birch, maple, yellow poplar, or other approved closed grain hardwood.
        d. Fire retardant rating: As indicated on the drawings.
    2. Sheet Panels:
        a. Medium Density Fiberboard (MDF): ANSI A208.2 Class MD (medium density) formaldehyde free.
        b. Fire Retardant MDF: Sierra Pine Ltd. (800-676-3339) "Medite FR2"; ANSI A208.2 Class MD, fire retardant treated to a flame spread of 25 when tested in accordance with ASTM E84.
        c. Fire retardant rating: As indicated on the drawings.
        d. Plywood for Interior Applications (Concealed): Softwood veneer plywood, APA grade stamped; B-C EXT, or better for other applications, unless otherwise noted.
    3. Metal Cladding: In accordance with Section 055000.
    4. Accessories:
        a. Fasteners: Zinc plated nails and trim head screws, as appropriate.
        b. Adhesives: Products of a reputable adhesive manufacturer; types as recommended by the manufacturer for the application; invisible in the finished work.
        c. Filler: Fabricator's standard non-staining sandable filler; color match to veneer for application at transparent finished surfaces.
    5. Finish: As specified in Section 099000, and as indicated on the Drawings.
    6. Fire Retardant Treatment:
        a. All fire retardant treated wood materials shall bear a UL "FR-S" label, or a label from an approved inspection agency certifying that the material meets the requirements of AWPA C-20 Type A for lumber and AWPA C-27 Type A for plywood.
        b. Approved Interior Fireproofing Products: Clear finish product, Hickson Corporation "Dricon", Hoover Treated Wood Products "Pyro-guard," or Kopper Performance Chemicals, "FirePRO".
        c. Treated materials shall be kiln dried to maximum 15 percent moisture content for plywood and 19 percent for lumber.

E. Fabrication
    1. Standing and Running and Trim: Comply with AWI requirements for "custom" grade fabrication.
        a. Shop cut and mill all lumber to the shapes indicated.
        b. Shop fit and assemble to the greatest extent possible.
        c. Mill and assemble built-up sections.
        d. Tolerances for overall assembly dimensions shall be within 1/32 of an inch.
        e. Back or kerf cut all solid wood trim greater than 2 inch in width, except terminate before exposed ends.
    2. Metal Clad Trim:
        a. Profile and detailing as indicated on the Drawings.
        b. Coordinate with fabrication of metal cladding specified in Section 055000.
        c. Use ~~Aluminum Z-Clips~~ concealed fastening methods as specified in Section 055000 to securely attach metal clad panels and trim to substrate material.
        d. Fabricate so that metal cladding completely conceals substrate.

F. Installation:
    1. Jointing: Make all joints to conceal shrinkage; miter all exterior corners; cope all interior corners, miter or scarf all end-to-end joints; install all trim pieces as long as possible, jointing only where solid support is obtained. Make no joints closer than 4 feet to corners.
    2. Lengths of Material: Use random lengths. The minimum length shall be 8 feet, except where short lengths are required by installation conditions.
    3. Fastening:
        a. Install all items straight, true, level, plumb, and firmly anchored in place; where blocking or backing is required, coordinate as necessary with other trades to ensure placement of all required backing and blocking in a timely manner.
        b. Unless approved otherwise, use concealed fastening methods.
        c. Where exposed fasteners are approved, fasten trim with finish nails or screws of proper dimension to hold the member firmly in place without splitting the wood. On exposed finish work, set all nails and screws and putty. Align exposed fasteners for uniform pattern; random or "shotgun" patterns will not be accepted.
    4. Metal Clad Trim:
        a. Install metal clad trim straight, true, level, plumb, and firmly anchored in place.
        b. Coordinate with installation of adjacent finishes.
        c. Cut fastening to be concealed.
        d. Individual lengths of trim are to be installed in a manner so that joints and corners between sections are even and hairline. No substrate material to be exposed and visible.
    5. Field Finishing:
        a. Sand all opaque finish wood surfaces to AWS "Custom" grade standards.
        b. Sandpaper all wood surfaces thoroughly as required to produce a uniformly smooth surface, always sanding in the direction of the grain; no coarse grained sandpaper mark, hammer mark, or other imperfections will be accepted.
        c. See Section 099000 for finishing of woodwork not finished under this Section.
    6. Installation of Owner Furnished Casework:
        a. Coordinate casework installation with the work of other trades for final electrical and mechanical connections.
        b. Install all casework accurately, plumb, square, and level, and permanently secured in accurate position as indicated on the Drawings. Casework shall be scribed to adjacent surfaces.
        c. Repair to acceptable like new condition, or replace all damaged components.

066000 PLASTIC FABRICATIONS

A. Summary:
    1. Decorative acrylic panels.

B. Related Sections:
    1. 055000 - Metal Fabrications: Supports, substrates and related trims.
    2. Division 26 - Electrical: LED backlighting.

C. Submittals
    1. Make submittals in accordance Section 013300.

    2. Product Data: Submit manufacturer's product data; include product description, fabrication information.

D. Delivery, Storage and Handling:
    1. Deliver plastic panel fabrications, systems and specified items in manufacturer's standard protective packaging.
    2. Do not deliver plastic panel fabrications, system, components and accessories to Project site until areas are ready for installation.
    3. Store materials in a flat orientation in a dry place that is not exposed to exterior elements.
    4. Handle materials to prevent damage to finished surfaces. Provide protective coverings to prevent damage or staining following installation for duration of project.
    5. Permit panels to reach room temperature before installing.

E. Environmental Limitations: Do not install panels until ambient temperatures and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

F. Products:
    1. Manufacturer: Specified in Drawings Finish Legend; Drawing Designation **DAP-1**.
        a. Engineered acrylic panel sheet.
        b. Thickness: Provide thickness as indicated on the drawings.

G. Fabrication:
    1. General: Fabricate panels to designs, sizes and thicknesses indicated and to comply with indicated standards. Sizes, profiles and other characteristics are indicated on the drawings.
    2. Comply with manufacturer's written recommendations for fabrication.
    3. Machining: Acceptable means of machining are listed below. Ensure that material is not chipped or warped by machining operations.
        a. Sawing and routing: Select equipment and blades suitable for type of cut required.
        b. Drilling and taping: Drills and taps specifically designed for use with plastic products.
    4) Approved Products:
        a) Interior Fireproofing: Clear finish product, Hickson Corporation "Dricon," Hoover Treated Wood Products "Pyro-guard," or Kopper Performance Chemicals "FirePRO".

H. Miscellaneous Materials:
    1. General: Provide products of material, size, and shape required for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
    2. Cleaner: Type recommended by manufacturer.
    3. Fasteners: Use screws designed specifically for plastics. Provide threaded metal inserts for applications requiring frequent disassembly.
    4. Bonding Cements: If required, use solvents or adhesives, suitable for use with product and application.

I. Installation:
    1. General: Comply with manufacturer's written instructions for the installation of panels. Sizes, profiles and other characteristics are indicated on the drawings.
    2. Manufacturer's shop to fabricate items to the greatest degree possible.
    3. Utilize fasteners, adhesives and bonding agents recommended by manufacturer for type of installation indicated. Material that is chipped, warped, hazed or discolored as a result of installation or fabrication methods will be rejected.
    4. Install components plumb, level and rigid, scribed to adjacent finishes, in accordance with approved shop drawings and product data.
    5. Form field joints using manufacturer's recommended procedures. Locate seams in panels so that they are not directly in line with seams in substrates. Seam type as indicated on the drawings.

J. Cleaning and Protection:
    1. Protect surfaces from damage until date of substantial completion. Repair work or replace damaged work, which cannot be repaired to Architect's satisfaction.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

078400 FIRESTOPPING

A. General:
    1. Summary: Firestopping material for penetrations in fire-rated construction.
    2. System Description:
        a. Each firestopping system shall be selected to maintain fire rating of the assembly in which it used.
        b. Firestopping systems shall be resilient as necessary to accommodate differential movement between assemblies.
        c. Where firestopping is used to seal penetrations through floors with waterproof membranes, system shall be selected for compatibility with membrane material.
    3. Quality Assurance:
        a. Prior to installation obtain approval from the jurisdictional code authorities for firestopping systems and applications proposed. Notify the Architect if approval cannot be obtained.
        b. Firestopping: Tested in accordance with ASTM E119, ASTM E814, or UL 1479 to meet the hourly fire ratings of the construction being sealed.

B. Products
    1. Firestopping Systems:
        a. Systems meeting the requirements specified and suitable for the conditions indicated, as manufactured by one or more of the following.
            1) Metacaulk.
            2) Tremco Inc.
            3) 3M.
            4) Hilti USA
            5) W.R. Grace & Co.
        b. Electrical Box Inserts:
            1) Manufacturer: Rectorseal (Houston TX; 713-263-8001; 800-231-3345).
            2) Fire Rated Pads: "BioFireshield LECTRA-STOP"; 1/4" thick intumescent pads; sized to fit electrical boxes; classified by UL; minimum 2 hour rating.
        c. Self Contained Sealing Systems: EZ Path by Specified Technologies, Inc.,or approved. System shall permit cables to be removed and installed without adjustment, removal, or reinstallation of firestopping materials; size each assembly to accommodate 25% more cable than installed in the Project.
        d. Systems with sodium silicate shall not be used.

C. 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. For sealing electrical boxes, coordinate installation with Division 16. Comply with manufacturer's recommendations for preparation and installation. Install in locations as required by Code for protection of openings through fire rated partitions.
    5. Cleaning:
        a. Trim excess material flush with adjacent surface.
        b. Remove spills, leave area in undamaged, clean condition.

078500 FIRE RATED JOINTS

A. Summary:
    1. Requirements for fire rated assemblies at construction joints in fire-rated construction, including joints at the following locations:
        a. Where partition heads meet the underside of overhead floor or roof construction.
    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. International Building Code (IBC)

C. 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.

D. 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.

E. Fire Rated Construction Joint Assemblies:
    1. Metal Stud Partition Head-of-Wall Joint Assembly:
        a. System: Based on UL assemblies listed on the Drawings; select system to accommodate ±3/4 inch vertical differential movement.
        b. Basis of Design: Cemco (800-775-2362) "FAS Track DL2"; 20 gage (33 mil) track with factory installed intumescent seal; include "Fas Shaft Track DL2" for application at shaft wall assemblies and "Cemco Fas Strap" for installation of partitions against fluted metal decks; width as appropriate to flute spacing.
            1) Acceptable Option (subject to compliance with Contract Document requirements and Architect's approval):
                a) Fire Trak Corporation (Kimball MN; 800-394-9875) "Fire Trak Shadowline."
                b) Cemco (City of Industry, CA; 800-775-2362) "FireStik"; continuous angle with intumescent material adhered to 2.4 inch vertical leg; application in combination with extended leg 20 gage head track.
                c) Blazeframe Industries (Redmond, WA; 425-869-2811) "Solid Deep Leg" DLX or DLXCD as appropriate for conditions; composite track with intumescent material in Flute Cover (FC)" for installation of partitions against fluted metal decks; width as appropriate to flute spacing.
        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.

F. 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. Quality Assurance:
    1. Use only skilled installers specially trained in the techniques of sealing, and familiar with the published recommendations of the manufacturers of the sealants being used.

B. Sealants:
    1. Type S - Neutral Cure Silicone Sealants:
        a. Dow Corning, 790 Silicone Building Sealant, or 795 Silicone Structural Glazing and Weatherproofing Sealant.
        b. Pecora, 890 Architectural Silicone Sealant.
        c. Tremco "Spectrem 1 or 3."
    2. Type PS – Multi-Component Polyurethane, Self-Leveling Type:
        a. BASF "MasterSeal SL 2," self-leveling or low-slope grade as applicable.
        b. Bostik "Chem-Calk 955SL."
        c. Pecora Corp, "Urexpan NR-200" or "Dynatrol II-SG" as applicable.
        d. Tremco Incorporated "THC-900" or "THC-901" as applicable.
    3. Type C – Color-Matched Sealant (product must be from same manufacturer as tile grout):
        a. Bostik Findley, Inc. (Temecula, CA; 800-592-8558) "CeramaSeal Tub & Tile Caulk".
        b. Mapei Corporation (Deerfield Beach, FL; 888-876-2734) "Keracaulk".
    4. Type A – Single Component Acrylic Sealant:
        a. Bostik "Siliconized Acrylic Latex".
        b. Pecora Corp. "Pecora AC-20."
        c. Tremco Incorporated "Tremflex 834."
    5. Type SM - Mildew Resistant Silicone Sealant (USDA Approved), clear:
        a. Dow Chemical, "Dow Corning 786"
        b. GE, "SCS 1700 Sanitary"
        c. Pecora, "898NTS Silicone."
        d. Tremco Inc., "Tremsil 200."

C. 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. Joint Filler: Closed or open cell polyethylene foam as recommended by sealant manufacturer for conditions; round profile; thickness: 130% of joint width.
    4. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
    5. Compressible Foam Sealant: Precompressed prefaced self-adhesive open cell polyurethane foam tape; "Backerseal" by Emseal Joint Systems, Ltd., or approved.

D. Preparation:
    1. Clean and prepare joints in accordance with manufacturer's instructions. Remove 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. Place backing materials to achieve proper sealant width/depth ratios. Use bond breaker where required.

E. Installation:
    1. Perform work in accordance with ASTM C1193, unless specified otherwise or recommended otherwise by the sealant manufacturer.
    2. Sealant beads shall have a sectional width to depth ratio of 2 to 1, except that sealant type PT shall be installed full depth without backing.
    3. Install Type C sealant full depth in tile expansion joints with no backer rod.
    4. Tool joints concave, unless indicated otherwise. Finish free of air pockets, foreign embedded matter, ridges, and sags.

F. Protect sealant in joints subject to dirt, moisture, and traffic during the sealant curing process. Protection shall be able to resist traffic while remaining securely in position.

G. Schedule:
    1. Type S: Provide at all exterior joints unless specified otherwise; standard colors as selected by Architect.
    2. Type PS: Provide at all exterior horizontal joints subject to traffic and abrasion; standard colors as selected by Architect.
    3. Type C: Provide at all joints in toilet room wall and floor tile, expansion joints in tile; furnish color from the manufacturer's full line of colors to match tile grout.
    4. Type A: Provide at all interior joints, unless specified otherwise; standard colors to match adjacent construction.
    5. Type SM: Provide at joints around countertops in Back of House (BOH) and Restrooms.

DIVISION 8 - DOORS AND WINDOWS

081113 HOLLOW METAL DOORS AND FRAMES

A. Summary:
    1. Interior rolled steel doors and frames.
    2. Exterior doors and frames, when indicated on the Drawings.
    3. Door vision lite glass and glaz

F. Doors:
1. Interior Door Construction:
   a. ANSI A250.8; seamless; minimum 18 gage face sheets.
   b. Core: Vertical steel stiffeners with sound deadening fill between stiffeners, or resin impregnated kraft paper honey comb core.
   c. Provide continuously welded seamless edges. No plastic fillers will be accepted.
2. Exterior Door Construction:
   a. ANSI A250.8; seamless; minimum 16 gage face sheets.
   b. Core: Polystyrene or polyurethane foam core.
   c. Special Construction Requirements:
      1) Provide continuously welded seamless edges. No plastic fillers will be accepted.
      2) Close top edges of exterior doors flush with steel filler cap; seal joints watertight.
      3) Cut mortises for butts using appropriate templates; universal non-handed preparation of doors is not acceptable.
3. Hardware Reinforcements:
   a. Hinge reinforcements for full mortise hinges: minimum 7 gage.
   b. Lock reinforcements: minimum 16 gage
   c. Closer reinforcements: minimum 14 gage, 20 inches long.
4. Glass Moldings and Stops
   a. Fabricate glass trim from 24 gage steel.
   b. Install trim into the door as a four sided welded assembly with mitered, reinforced and welded corners.
   c. Trim: Identical in appearance on both sides of the door.
5. Fabrication:
   1) In accordance with ASNI A250.8.
   2) Edge Seam: Full height mechanical interlock.
   3) Bevel door latch edges 1/8 inch in 2 inches.
   4) Cut mortises for butts using appropriate templates; universal non-handed preparation of doors is not acceptable. Install reinforcements; welded in place.
   5) Projection weld hinge and lock reinforcements to the edge of the door; provide adequate reinforcements for other hardware as scheduled.
   6) Reinforce top and bottom of doors with 14 gage channels, welded to both face panels.
   7) Install glass moldings into the door as a four sided welded assembly with mitered, reinforced and welded corners.
   b. Vision Lites:
      1) Tempered Glass: ASTM C1048, FT; 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.
      2) Glazing Film:
         a) 3M Company (St. Paul, MN; 888-364-3577) "FASARA" Luce, White, SH2FGLU glazing film.
   c. Sizes: Dimensions on Door Schedule refer to frame opening sizes to the rabbet.
   d. Thickness: 1-3/4 inch, unless otherwise scheduled or detailed.
   e. Clearances: Fabricate for 1/8 inch clearance at head and each jamb, 1/8 inch between pairs of doors, 3/8 inch clearance from hard surface finish floor, 3/4 inch from hard surface beneath doors at openings indicated to receive carpeting, and 3/16 inch clearance above top of threshold.

G. Frames:
1. Design: Double rabbet, unless indicated otherwise; fully welded.
2. 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.
3. Accessories: Furnish necessary anchors for jambs, heads, and sills of assemblies.
4. Frame Hardware Reinforcements
   a. Mortise hinge reinforcement: minimum 7 gage: Furnish high frequency hinge reinforcement for top hinge on all exterior, cross corridor, and stairwell frames, in accordance with SDI 111-H.
   b. Strike reinforcements: minimum 16 gage.
   c. Closer reinforcement: minimum 14 gage.
5. Fabrication
   a. Fabricate frames to profiles and with throat dimensions as indicated.
   b. Fabricate exterior frames with 1 1/4 inch mounting flanges and 1 inch backbends where indicated.
   c. Cut mortises for butts strikes and other hardware, as scheduled, using appropriate templates. Install reinforcements. Projection weld hinge and strike reinforcements to the door frame. Provide adequate reinforcements for other hardware as scheduled.
   d. Frames shall be die mitered with integral tabs.
      1) Frames shall be shop assembled; continuous face weld joint between the head and jamb faces, at meeting mullions and between other frame members along their length either internally or externally. Grind, prime paint, and finish smooth face joints with no visible face seams.
      2) Provide two temporary steel spreaders (welded to the jambs at each rabbet of door openings) on welded frames during shipment. Remove temporary steel spreaders prior to installation of the frame.
      3) Ship frame assemblies to the jobsite completely welded. Field joints permissible only when the size of the total assembly exceeds shipping limitations. Fabricate oversized frames in sections designated for splicing in the field. Provide frames with joint reinforcements 14 gage, 8 inch long. Field weld joint reinforcement inside and tack weld outside joint at both faces, grind, and finish smooth and uniform in appearance, after installation.
   e. Provide metal plaster/mortar guards for all mortised cutouts at frames indicated for installation in masonry construction.
   f. Electrical Requirements (when indicated on the Drawings): Coordinate all electrical requirements for doors and frames. Make provisions for installation of electrical items arranged so that wiring can be readily removed and replaced.
      1) Provide cutouts and reinforcements required for door frames to accept electric components.
      2) Frames with Electrical Hinges: Weld UL listed grout guard cover box over center hinge reinforcing. Top or bottom hinge locations are not permitted.
      3) Provide cutouts and reinforcements required to accept security system components, where applicable.

H. Finish:
1. Interior Frames: Manufacturer's standard rust-inhibitive primer.
2. Exterior Frames: Hot dip galvanized zinc coating conforming to ASTM A653 A60 (.60 oz/sq ft. coating weight), with manufacturer's standard primer to receive coating system specified in Section 099000.

I. 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. Install accessories.
4. Installation Tolerances; Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.
5. Door and hardware installation is specified in Section 087300.
6. Door Vision Lite Glazing Film:
   a. Install screening film to #2 surface of door vision lite
   b. Clean glass and remove labels prior to installation of screening film.
   c. Comply with manufacturer's instructions for preparation and installation of screening film.
   d. Cut film accurately to extend full height and width of vision lite without visible gaps at edges. Cut film straight at butt joints so that film does not lap over sealant joints. Installed free of air bubbles, scratches, splices, and other defects which would impair clarity.

083100 ACCESS DOORS AND PANELS

A. Summary: Fire-resistive, and non-rated access doors, frames, and accessories.

B. 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.

C. Acceptable Manufacturers:
1. Milcor, Inc., Lima, OH
2. J.L. Industries, Bloomington, MN.
3. Karp Associates, Inc., Maspeth, NY.
4. Nystrom, Minneapolis, MN

D. Door Types:
1. Fire Resistive Metal Access Door:
   a. Flush type design.
   b. 16 gage frame; min. 20 gage steel welded door panel insulated with non-combustible filler.
   c. Self-closing and self-latching, with interior latch release.
   d. Fully concealed pin-type hinges, or continuous piano hinge; 175 degree opening.
   e. Ring turn latch.
2. Non-rated Concealed Drywall Access Door:
   a. Recessed type design.
   b. Minimum 16 gage steel frame; minimum 16 gage steel door panel recessed to receive drywall.
   c. Integral attachment flange and drywall bead for flush installation.
   d. Fully concealed pivot rod hinge.
   e. Latches: Screw driver operated cam latch.
3. Non Rated Ceiling Access Panel at Sales Floor areas:
   a. Acceptable Manufacturer: One of the following.
      1) Intex Forms (Gilroy CA; 408-846-5667), www.intexforms.com
      2) GC Products (Sacramento CA; 800-636-8864; 916-349-2726) www.gcproductsinc.com
   b. Flush design, similar to Intex Forms "Glass Fiber Reinforced Gypsum Access Panel."
   c. Cast gypsum frame and lay in panel; 1/8 - 3/16 inch shell thickness minimum; square corners.
   d. Integral attachment flange and drywall bead for flush installation.
   e. No hardware.
   f. Size: 18" x 18", unless otherwise indicated.

E. Installation:
1. Provide access doors in the locations indicated, and 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.
2. Coordinate access requirements with other trades.
3. Provide concealed drywall access doors unless fire rated access doors are required because of fire rated construction.

084226 ALL-GLASS STOREFRONT SYSTEM

A. Summary:
1. All-glass storefront system.
2. Structural engineering for attachment of glass storefront systems

B. System Description:
1. Bidder Design in accordance with Section 016000.
2. Design anchorage for all-glass storefront system.

3. Provide attachments to resist code-required dead and live loads, including a uniform 10 PSF uniform load and wind and seismic loads in accordance with code requirements, including local amendments.

C. Glass Performance Criteria:
1. Stress Analysis:
   a. The glass manufacturer shall perform stress analysis to determine the proper glass thickness and treatment required to resist the structural and thermal stresses for each glazing condition (based on the worse case for each condition). All costs in conjunction with the analysis shall be borne by the Contractor.
   b. Should the stress analysis show that glass of greater strength or thickness is required over that scheduled, then all such changes shall be included in the bid price. The Contractor shall not be entitled to any claims for additional compensation for failure to meet this requirement.
   c. Submit all documentation to the glass manufacturer as required to obtain glass manufacturer's stress analysis.
2. Structural Stress Criteria:
   a. Vertical Glazing: Design glazing to withstand positive and negative loads.
   b. Center Deflection: Maximum deflection shall not exceed L/175 or 3/4 inch, whichever is less.

D. Submittals:
1. Shop Drawings:
   a. Indicate materials, thicknesses, finishes, dimensions, methods of joining and anchoring, and relationship to adjacent construction.
   b. Include typical and special details drawn at full scale.
   c. Include designing engineer's stamp.
2. Product Data:
   a. Manufacturer's product data on rails and stationary fittings.
   b. Glazing sealant.
3. Certification: Submit certification that the all-glass storefront system has been designed in accordance with the specified requirements.

E. Quality Assurance:
1. Fabricator Qualifications: Minimum of 5 years experience in the fabrication and finishing of all-glass entrance system; able to show evidence of successful completion of work similar to the work of this contract.
2. Regulatory Requirements:
   a. All-glass entrance system shall meet the requirements of the jurisdictional code authorities.
   b. Safety Glass Standard: Comply with the requirements of the jurisdictional code authorities.
   c. Furnish all calculations, engineer's stamps, drawings, and other items required by the code authorities to obtain approval of the installation.
3. Comply with pertinent recommendations in the GANA "Manual of Glazing."
4. Structural design of the all-glass entrance system shall be by a Structural Engineer Licensed to practice in the State where the Project is located.

F. Materials and Components:
1. Glass:
   a. ASTM C1036, Type I, class 1(clear), quality q3 glazing select; 1/2 inch thickness, unless indicated, required by stress analysis, or approved otherwise; fully tempered in accordance with ASTM C1048; certified safety glass in accordance with ANSI Z97.1.
   b. No long marks, or other fabrication imperfections allowed in the finished work.
   c. Edge Treatment:
      1) Glass Edges to be Exposed in the Finished Work: Pencil edge, polished; approximate 1/8-inch chamfer.
      2) Glass Edges Indicated for Exposed Silicone Sealant Treatment: Ground edge, seamed.
   d. Unless otherwise approved by the building official, provide manufacturer's label on each light, indicating type and thickness of glass.
2. Glass Partition Glazing Materials:
   a. Insert Setting Blocks: Neoprene; 70-90 Shore A durometer hardness.
   b. Spacers for Glass Partitions: Spring clip design.
   c. Wet Glazing Sealant: Dow-Corning "999A"; clear.
3. Storefront Rails, Channels and Stationary Fittings for Glass Storefront Panels:
   a. Basis of Design Manufacturer: CR Laurence (800-421-6144) or approved subject to compliance with Contract Document requirements and Architect's approval of finish and conformance to design intent.
   b. Bottom Rails: CRL "SR68PT3812CL" 6 inch, Custom Color and Length Square Sidelight Rails: end caps to match; setting blocks and gaskets.
   c. Glazing Channels: CRL "UCPT3812CL"; Custom Color and Length U-Channel; end caps to match; setting blocks and roll-in top load gaskets.
   d. Wall Front Glazing Clamps at Open Butt Joints: CRL, type and profile as indicated on the Drawings; custom finish to match rails.
   e. Powder Coat Finish: Shop applied polyester or fluoropolymer powder coating in compliance with AAMA 2603 for interior locations, and AAMA 2605 for exterior locations, custom color as indicated on the Drawings. Coordinate with Owners fixture vendor for product and color.

G. Fabrication:
1. Tempered and Heat Strengthened Glass:
   a. Tempered Glass: ASTM C1048, FT; 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.
   b. Heat Strengthened Glass: ASTM C1048, HS; glass which has been heat treated to strengthen glass in bending to not less than 2 times annealed strength.
   c. Fabricate tempered and heat strengthened glass units so that principle distortion will be in the horizontal direction in the finished installation.
   d. Unless otherwise approved by the building official, provide manufacturer's label on each light, indicating type and thickness of glass.

   e. Comply with IBC paragraph 2406.2 requirements for identification and labeling of safety-glazing materials in hazardous locations subject to human impact loads.
   f. Fabrication Process: Horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed, unless otherwise indicated.

H. Glass Panel Installation:
1. General: Install all members as detailed with adequate provision for settling, expanding, and contracting to occur without breaking glass.
2. Setting Blocks: Place setting blocks in shoes for support of glass panels. Place at quarter points of each panel, unless approved otherwise.
3. Set glass tightly in position with proper clearances in accordance with the referenced standards. Provide spacers to maintain proper clearance between glass face and glazing channels.
4. Secure glass panels to bottom rail shoes and top U channels as recommended by the manufacturer. Install glazing clamps where indicated. Wet glaze or cap with manufacturers glazing gaskets.
5. Cleaning:
   a. Clean excess glazing materials from adjacent finished surfaces.
   b. Remove labels after work is completed.

087100 DOOR HARDWARE

A. Install door hardware furnished by the Owner

B. As scheduled on the Drawings.

087300 DOOR AND HARDWARE INSTALLATION

A. Installation:
1. Mark each item of hardware as to description and location of installation in accordance with approved hardware schedule.
2. 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 finishes 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.
3. 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 locations 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: 48 inches finish floor to center of cylinder.
   c. Emergency Exit Cross Bar: 38 inches from finish floor.
   d. Push/Pull: 42 inches finish floor to centerline of push/pull bar set.
   e. Push Plate: 1/2 inch from edge of door; 42 inches to center line of plate, except 45 inches 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.
4. Adjusting and Cleaning: Adjust and check each operating item of hardware and each door to ensure proper operation. Clean door and hardware.

DIVISION 9 FINISHES

092200 LIGHTGAGE METAL SUPPORT FRAMING

A. Summary:
1. Interior partition, ceiling, and soffit construction, not covered by specified in Section 054000.
2. Structural design oflightgage metal support framing systems.

B. System Description:
1. Structural Design:
   a. Structural design oflightgage metal framing systems shall be furnished by the Contractor.
   b. Select framing systems, gages, supports, bracing, and connections as necessary to meet the structural requirements specified.
   c. Partition framing shall conform to the widths indicated, unless approved otherwise. Provide thicker gages and decreased 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.
3. Deflection Requirements: Maximum of 1/240 the span, except maximum 1/360 at tile.

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 event 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 necessary. Minimum 25 gage, except furnish 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) Basis of Design: Chicago Metallic (Chicago, IL Los Angeles, CA; 800-323-7164).
      2) Acceptable Options (subject to compliance with these Contract Documents):
         a) USG Interiors, Inc. (Chicago, IL; 800-874-4968).
         b) Armstrong (800-207-2321).
   b. Suspension System: Similar to System 650, or 670; ASTM C635 heavy duty application.
      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 I-3/8 inch wide with knurled face by 1-1/2 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 7/8 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. Partition Head Compensating Channel (Non-Rated): 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."
6. 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. Top Runner: Use proprietary compensating channel or deep leg track at Contractor's option, as necessary to accommodate building deflection.
   d. Align to tolerances specified.
2. Unless indicated otherwise, install studs vertically at 24 inches oc, and not more than 2 inches from abutting construction, at each side of openings, and at corners. Studs for support of stone tile shall be installed at 16 inches o.c.
3. Fit runners under and above openings; secure intermediate studs at spacing of wall studs.
4. Brace partition framing system and make rigid.
5. Install double studs continuous from floor to ceiling track at the jamb of each door frame and cased openings. 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 extend to structure.
6. 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.
7. Coordinate the installation of framing with the gypsum board installer to ensure support at all board edges. Provide framing immediately either side of expansion joints.
8. Stud splicing not permissible.
9. At non-load bearing full height partitions subject to compression caused by overhead structural deflection, cut studs 1/2 inch short from full height, except as otherwise indicated. Do not rigidly connect stud to top runner.
10. 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.

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.

G. Backing:
1. Provide steel backing where indicated. At Contractor's option steel backing plates may be substituted for wood blocking, except wood blocking shall be used at the following locations: Handrails, guardrails, grab bars, and similar safety items.
2. Unless indicated otherwise, steel backing shall consist of minimum 4 inch wide 16 gage steel plate screwed rigidly to the studs.

H. Installation Tolerances:
1. Install members to provide surface plane with maximum variation of 1/8 inch in 10 feet in any direction.
2. Variation from Vertical (walls): 1/8 inch in 10 feet.
3. Locate assemblies within 1/4 inch of required locations.

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. Standard Board, Water Resistant Board: ASTM C1396; Type X in fire rated partitions where indicated, and where incorporated as a part of a fire rated assembly; 5/8 inch thick unless noted otherwise.
   b. Tile Backer Board: As specified in section 093000.
2. Accessories:
   a. Trim: Concealed flange screw-on type; metal or PVC at Contractor's option; GA 216.
   b. Reveal Moldings: Fry Reglet Co., Pittcon Industries, Inc., Gordon Inc, or approved; aluminum extrusions with taping flanges; shapes as indicated.
   c. Joint Compound, Tape, and Finishing Compound: ASTM C475 and GA 216.
   d. Screws:
      1) Interior: ASTM C1002.
      2) Exterior: Galvanized; self-drilling, bugle head screws; minimum 1-1/4 inch long.

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. Screw fasten board to framing, unless approved otherwise.
3. Install water resistant board as a substrate for surfaces scheduled to receive bonded finishes in Restrooms.
4. Where gypsum board is installed to patch or resurface existing fire rated walls, install so as to maintain existing fire rating.
5. Space control joints as indicated. When not indicated, locate as directed by Architect.
6. 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 (including light coves) where sealant joint is indicated.
7. 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 expansion or 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.
8. Finishing (interior):
   a. Provide finishing in accordance with GA 214.
   b. Where necessary to sand, do so without damaging the face of the gypsum board.
   c. 3 coat smooth wall finish typical.
   d. Gypsum board surfaces shall form a smooth surface free of ridges, joint marks, fastener depressions, and joint filler lines. Tapered board joints shall be taped, filled, and feathered to 12 inches either side of the joint. Non-tapered board joints shall be taped, filled, and feathered to 18 inches either side of the joint.
   e. Level 5 finish at all wall covering, and Sales Floor walls visible to the Customer in the final work, and other areas as indicated on the Drawings.

093000 TILING

A. Summary:
1. Installation of Owner provided interior wall tile at storefront.
2. Installation of Owner provided interior floor tile.
3. Tile backer board
4. LHT mortar and grout
5. Metal screeds

B. Quantity Statements:
1. Tile, with pertinent installation and maintenance instructions will be furnished by Owner.
2. Quantities of tile purchased will be based on the approved Quantity Statement furnished by the Contractor for the exact amount required for the installation. Overage quantities will be added separately by the Owner for each type of tile.
3. Contractor shall be responsible for accuracy of quantity statements. In the event that insufficient quantity is discovered after order has been placed, proceed as follows:
   a. Immediately notify the Owner in writing of the additional quantities required, whereupon the Owner will, at his cost, obtain the additional quantities.
   b. Install additional quantities at no additional cost to the Owner.
   c. Pay for unusual transportation costs incurred in obtaining additional materials.
   d. Tile furnished for overage may be installed, if necessary. Notify Owner of quantity of tile installed so that he may obtain additional tile for overage stock.

C. Submittals:
1. Product Data: Submit for each type of tile, grout, adhesive, additive, accessory, and membrane specified.
2. Samples:
   a. Grout: Submit cured samples of each grout color. Furnish 2 cured samples of approved grout colors to the expansion joint sealer installer for color matching.
   b. Screeds: Submit samples of each type and finish of screed; minimum 3 inch length.

D. Quality Assurance: Conform to ANSI Standard Specifications for the Installation of Ceramic Tile.

E. Tile Types: As scheduled on the Drawings.

F. Setting Materials:
1. Thinset Mortar: Latex-portland cement in accordance with ANSI A118.4; 100% acrylic latex additive at all locations; Mapei Corp "Grani/Rapid" or "Kerabond" with "Universal Keralastic", Laticrete International, Inc., "211 Crete Filler Powder" with 4237 Latex Thin-set Mortar Additive," Hydroment "Tile-Mate Premium" with "447 Flex-a-lastic" by Bostik, or approved.
2. Large and Heavy Tile Mortar (Medium Bed):
   a. Mapei Corp. "Grani/Rapid" or "UltraLiteMortar".
   b. Laticrete International, Inc. "255 MultiMax".
   c. Bostik Hydroment "Medium Bed Mortar" mixed with "425 Multi-Purpose Acrylic Admixture," proportions as recommended by the manufacturer.
   d. Ardex Engineered Cements "X32 Microtec".
3. Cementitious Grout:
   a. Hydroment "Ceramic Tile Grout /Joint Filler" with "425 Flexible Grout Admixture" by Bostik; "Keracolor S" by Mapei Corp., or "1500 Series Sanded Grout" with "1776 Grout Admix Plus" by Laticrete International, Inc.; sanded as appropriate for installation.
   b. Colors as listed in the Finish Schedule.
   c. Colors: As indicated in the Finish Legend.

G. Setting Accessories:
1. Metal Screed: As manufactured by Schlüter Systems, Inc. (800-225-8902), or Ceramic Tool Company, (414-258-9066); stainless steel tile edging trim; sizes as required for installation of top of screed flush with top of tile, as detailed.
2. [Tile Waterproofing Membrane:
   a. Mapei Corp "Aqua Defense" liquid-rubber waterproofing and crack-isolation membrane.
   b. Laticrete International, Inc. "HydroBan".]
3. Crack Isolation Membrane: One of the following.
   a. Laticrete "Blue 92 Anti-Fracture Membrane".
   b. The Noble Company "NobleSeal TS," reinforced CPE sheet membrane.
   c. N.A.C. Products Inc. "ECB Membrane;" self bonding reinforced modified asphalt sheet membrane; 36" width.
4. Interior Tile Backer Board and Accessories (approved for use at interior wall locations only)
   a. Interior Wall Locations:
      1) Georgia Pacific: "DensSheild".
      2) USG: "FiberRock Aqua-Tough"
      3) CertainTeed: "DiamondBack Glasroc".
      4) Thickness: Nominal 1/2 inch or 5/8 inch as indicated on the Drawings.
   b. Provide tape and fasteners as recommended by the interior tile backer board manufacturer.
   c. Backer Board Accessories:
      1) Joint Tape: Open weave glass mesh joint tape, self-adhesive; 2-1/2 inches wide.
      2) Fasteners: As recommended by the backer board manufacturer; thread forming self-drilling wafer head screws; polymer coated or zinc plated; USG "Durock Screws," "Rock-On," or approved.
5. Siloxane Type Tile Sealer:
   a. Miracle Sealants "511-H20" by Miracle Sealants and Abrasives Company (800-350-1901).

H. Preparation: Clean substrate surfaces free of grease, dirt, dust, organic impurities, curing agents, and other materials which would impair bond. Clean floors with "Blast-track" unit if necessary.

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 10 feet from the required plane, and no more than 1/16 inch variation in 24 inches when measured from the high points in the surface. Smooth all abrupt changes in plane.
2. Use subfloor fillers endorsed by the setting mortar manufacturer.
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. Installation of Tile Backer Board:
1. Install in accordance with the manufacturer's installation instructions. Provide shims as necessary to align backer board with adjacent substrates.
2. At wall locations, install units with edges firmly supported over framing at a maximum spacing of 16 inches oc.
3. Provide required space between panels.
4. Screw attach units with backer board manufacturer recommended fasteners spaced 6 inches oc along framing.
5. Install fiberglass reinforcing tape with joint compound at joints between panels.

K. Crack Isolation membrane installation:
1. Install crack isolation membrane on a unit price basis in accordance with Section 012200.
2. Crack isolation membrane may be required at the following locations:
   a. At control and construction joints in concrete floors.
   b. At changes in substrate materials.
   c. Shrinkage cracks 1/16 inch or larger in existing slabs.
3. Extend a minimum of 24 inches each side of crack or joint.
4. Substrate Examination:
   a. Substrates are subject to examination by the Owner prior to installation of tile or slab leveling materials. Furnish a minimum of 7 days notice.
   b. The examination will determine the need for crack isolation membrane at locations not scheduled above.

L. Waterproof Membrane Installation:
1. Install waterproof membranes in accordance with manufacturer's installation instructions.
2. At above grade locations, install waterproof membrane completely over floor surfaces indicated, and up the wall a minimum of 5 inches. (Do not expose the waterproof membrane to view.)
3. Protect waterproof membrane from damage until after tile installation is complete.

M. Screed Installation:
1. Install screeds at tile field edges at the locations indicated.
2. Accurately cut to length for flush tightly butted joints. Provide miter cut angle joints.
3. Install in longest possible lengths, except that no screed section shall be longer than 12 feet or shorter than 4 feet.
4. Install screeds free from waves and variations in height, flush with top of adjacent tile surfaces.
5. Set screeds accurately in setting bed as the tile installation proceeds. Comply with screed manufacturer's instructions to achieve mortar tightly compacted between screed and tile edge.

N. Installation of Tile:
1. Interior Floor Application - Thinset or LHT Mortar Bed over Concrete Substrate or Waterproofing/Crack Isolation Membrane.
   a. TCNA System: Similar to F113.
   b. Installation Standard: ANSI A108.5.
   c. Setting Materials: Latex modified thinset mortar; 3/32 inch minimum thickness.
2. Interior Wall Tile Application – Thinset Over Tile Backer Board.
   a. TCNA System: Similar to W244.
   b. Installation Standard: ANSI A108.5.
   c. Setting Materials: Thinset mortar.
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 floor tile such that cut tile at each edge of each rectilinear field is not less than half of a full size unit.
   d. Unless otherwise indicated, tile joints shall be 1/8" wide.
4. Tiles shall be blended as necessary to avoid pattern repeats and "patches" of adjoining tiles of distinctive color or character within each field area.
5. Tiles that exhibit directional patterns shall be set with grain direction as indicated on the shop drawings, or, if not indicated, as directed by the Owner.
6. Install tiles aligned with adjacent finishes, where indicated. Provide mortar fill as necessary for proper alignment.
7. Use wet saws to cut tiles for accurate fit and consistent edge conditions; scratch cutters and snapped tiles are not allowed.
8. Clean joints of mortar to minimum depth of 1/4 inch to allow subsequent grout installation.
9. Tolerances:
   a. Joint Width Variation: Plus or minus 25% of joint width.
   b. Tile Taper: Plus or minus 25% from one end to the other.
   c. Lippage: No portion of a tile surface shall vary more than 1/32 inch above or below an adjacent tile surface.
   d. Install tile fields level to within tolerance specified for finished substrate.
   e. Chipped or broken tile: Not acceptable.
10. Special Floor Tile Installation Requirements:
   a. Wash backs of each tile to remove all dust and soil which would compromise adhesion.
   b. Dampen substrate as necessary to prevent excessive suction.
   c. Key the mortar into the substrate with the flat side of the trowel.
   d. Comb mortar over the previously keyed substrate in one direction using the notch side of the trowel.
   e. Firmly press each tile into the mortar. Press down and move the tile back and forth perpendicularly across the ridges approximately 1/8 to 1/4 inch to flatten the ridges and fill in the valleys of the combed mortar, as necessary to achieve minimum mortar coverage of 95 percent, with tile corners and edges firmly supported.
   f. Set tiles in accurate alignment.

O. Grouting:
1. Mix grouts in accordance with manufacturer's instructions.
2. Grout all joints, except expansion joints, in accordance with the manufacturer's recommendations. Float joints to a slightly concave profile.
3. Remove excess grout from tile surfaces in accordance with the grout and tile manufacturer's recommendations. Do not use excess amounts of water.
4. Protect adjacent surfaces from damage if acid cleaners are used.
5. Do not grout joints indicated to receive sealants.
6. Cured grout joints shall be made free of efflorescence, prior to sealing.
7. Cure installation in accordance with the grout manufacturer's recommendations. Protect tile and grout during curing operations.

P. Expansion Joints:
1. Place expansion joints as indicated on the Drawings, but in no case more than 16 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.
4. Leave expansion joints free of mortar.
5. Sealant materials and installation are specified in Section 079200.

Q. Cleaning:
1. Wash and thoroughly rinse all tile. Leave all tile

7. Corner Seams: Make no seams within 6 inches of an inside or outside corner. Lap wall coverings at inside corner seams to prevent substrate show through.
8. Cleanup
   a. Remove all adhesives, and other contaminants in a manner which will not damage the surface from which it is removed.
   b. Remove debris and leave areas neat and clean.
   c. Replace all removed wall plates and other accessories.
   d. Repair to like-new condition, or replace as directed by the Owner, all surfaces damaged by work of this Section.

099000 PAINTING AND COATING

A. Summary:
   1. Interior painting of new surfaces.
   2. Painting of previously unpainted interior steel elements indicated on the Drawings.

B. Submittals:
   1. Submit a list of each paint system to be used in the work.
   2. Submit two samples of each color and paint system indicated.

C. Quality Assurance:
   1. Paint coatings shall be free of dust, dirt, flow lines, streaks, sags, blisters, pinholes, bugs, runs, or other surface imperfections.
   2. In addition to the coats specified, provide additional coats as required to obtain adequate hide.

D. Maintenance Materials: Furnish a minimum of one gallon of each color paint to Owner for future touch-up work.

E. Materials:
   1. Products by the following manufacturers are acceptable:
      a. Pittsburgh Paints.
      b. Pratt & Lambert.
      c. Benjamin Moore Paint Company
      d. The Sherwin-Williams Company.
      e. Glidden Professional / Akzo Nobel Paints.
   2. Paint materials are to be fully VOC compliant, and of the highest quality intended for application by professional commercial painters.
   3. Acrylic Wall Size: One of the following.
      a. ICI Devoe "Wonderprime" DR51701 vapor barrier primer/sealer.
      b. ICI Dulux "Ultra-Hide" 1060 vapor barrier primer/sealer.
      c. Sherwin-Williams "Harmony Primer 0 VOC" B11W900.
      d. Benjamin Moore Paint Company "Moore's Wall-Grip 203."
      e. Zinsser Co, Inc. (Somerset NJ; 732-469-8100) "Shieldz Universal Pre-Wall Covering Primer"; acrylic primer/sealer.
   4. Concrete Urethane Flooring Topcoat System:
      a. Manufacturer: Dur-A-Flex, Inc. (East Hartford, CT; 877-251-5418) "Accelera".
         1) Colorant Additive: "White" – one of the following:
            a) Tennant Coatings (Minneapolis, MN, 866-540-1299), "#370300 White Colorant".
            b) Sherwin Williams Company "ColorCast EcoToner #844".
         2) Sheen: Gloss.
         3) Add 1 pint colorant per 1 kit of Accelera.
   ~~5. Epoxy/Polyurethane System: One of the following~~
      ~~a. Manufacturer: Tremec Company Inc. (Kansas City, MO; 816-483-3400).~~
         ~~1) Epoxy Primer: "Hi-Build Epoxoline II" Series 69.~~
         ~~2) Polyurethane Finish Coats: Series 75 "Endura-Shield" Acrylic Polyurethane Enamel, semi-gloss or satin sheen.~~
      ~~b. Manufacturer: Carboline Company (St. Louis, MO; 314-644-1000; 800-848-4645).~~
         ~~1) Epoxy Primer: Carboline 888~~
         ~~2) Polyurethane Finish Coats: Carboline 133 HB; semi-gloss or satin sheen.~~
      ~~c. Manufacturer: Ameron Protective Coatings (Brea, CA; 714-529-1951).~~
         ~~1) Epoxy Primer: "Amercoat 385."~~
         ~~2) Polyurethane Finish Coats: Amercoat 450SA"; semi-gloss or satin sheen.~~
   6. Direct-To-Metal (DTM) acrylic primer:
      a. ICI/Devoe "Devflex 4020" primer.
      b. Sherwin Williams "DTM Acrylic Primer."

F. Surface Preparation:
   1. Prepare surfaces by removing dirt, dust, grease, oil, moisture, and other contaminants that will impair the proper adhesion of the finish.
   2. Wood - Opaque paint finish:
      a. Spot coat knots, pitch streaks, and sappy sections with sealer.
      b. Fill nail holes and cracks. Sand filler smooth and level with wood surface.
   3. Gypsum Board: Remove light dust, and dirt.
   4. 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.
   5. Existing Unpainted Interior Steel Elements (above 10 feet) Indicated to Receive Paint:
      a. Remove loose, and scaling rust with wire brush.
      b. Leave surface free of dust and dirt that will impair bond of newly applied finish.
   6. Existing Unpainted Interior Steel Elements (below 10 feet) Indicated to Receive Paint:
      a. Solvent clean in accordance with Steel Structures Painting Council (SSPC) SP-1.
      b. Commercial blast per SSPC SP-6.
      c. Leave surface free of dust and dirt that will impair bond of newly applied finish.
   ~~7. Existing Concrete Floor Surfaces:~~
      ~~a. Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.~~
      ~~b. For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP-1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.~~
      ~~c. Follow the standard methods listed below when applicable:~~
         ~~1) ASTM D4258 Standard Practice for Cleaning Concrete.~~
         ~~2) ASTM D4259 Standard Practice for Abrading Concrete.~~
         ~~3) ASTM D4260 Standard Practice for Etching Concrete.~~
         ~~4) ASTM F1869 Standard Test Method for Measuring Moisture Vapor~~
         ~~5) Emission Rate of Concrete.~~
         ~~6) SSPC-SP 13/Nace 6 Surface Preparation of Concrete.~~
         ~~7) ICRI No. 310.2 Concrete Surface Preparation.~~
      ~~d. Previously Finished Surfaces:~~
         ~~1) Clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion.~~

G. 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. 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).
      c. Sand lightly between coats if necessary to achieve required finish; sand between coats applied to wood substrates.
   4. Rollers for application, and backrolling of latex paints shall have a nap of 3/8 inch or less.
   5. Where roller texture is scheduled for application to plaster and gypsum board surfaces, finish coats may be roller-applied, or spray applied and backrolled at Contractor's option.
   6. Factory Primed Surfaces: Apply scheduled finish system, less primer coat, except as necessary to for patching damage to factory prime coating.
   7. Except where scheduled or indicated otherwise, the intent is to paint new rooms and areas. Existing areas that have not been remodeled or do not have patched surfaces are not to be repainted. Where existing surfaces have been remodeled or patched the entire room is to be repainted, including the associated access panels, electrical panels, hollow metal doors and frames (both sides), and similar elements within the room.

H. Interior Painting Systems:
   1. Gypsum Board, Gypsum Plaster, and GFRG - Latex System:
      a. System: Three coats - first coat acrylic latex primer sealer (untinted), second and third coat latex paint.
      b. Sheen: Roller texture, eggshell sheen, except provide flat sheen at light coves, ceilings, skylight areas, clerestory areas, interior fascias, and other light sensitive surfaces. Verify locations of each sheen with Architect before proceeding with work.
      c. Application:
         1) Use on all exposed gypsum board, plaster, and GFRG surfaces, including the exposed portions of wall surfaces between adjacent fabric covered panels and mirrors.
         2) Provide prime coat only behind permanently mounted mechanically anchored mirrors, fabric panels, and similar elements.
         3) Do not apply primer or paint coatings to surfaces to receive adhesively mounted mirrors or tile.
   2. Gypsum Board - Surfaces to Receive Wall covering: Apply one coat of acrylic wall size.
   3. Interior Latex Dry-Fall System: One of the following; color matches as scheduled.
      a. Manufacturer: Benjamin Moore Paint Company
         1) Finish: M53 "Sweep-Up Spray Latex Flat."
      b. Manufacturer: ICI Devoe
         1) Finish: "1280-1200 Spraymaster Pro Uni-Grip WB Aquacrylic Dryfall Flat Primer and Finish."
      c. Manufacturer: Sherwin-Williams
         1) Finish: "Waterborne Acrlic Dryfall (B42 Series)" Flat sheen.
   4. Wood - Opaque Finish Latex System:
      a. System: Three coats; first coat latex wood primer, and second and third coat latex enamel.
      b. Sheen: Semi-gloss, unless indicated otherwise.
      c. Application: Use on all wood or medium density fiberboard surfaces indicated to receive opaque coating not otherwise specified in Sections 064000 or 081400.
   5. Ferrous Metal and Galvanized - Acrylic System:
      a. System: Three coats; first coat acrylic DTM primer; second and third coats latex finish. The primer may be omitted at factory primed surfaces, except as necessary to recoat damaged or abraded preprimed surfaces.
      b. Sheen: Semi-gloss, unless indicated otherwise.
      c. Application: Interior ferrous metal surfaces including hollow steel metal doors and frames, pipe steel hand and guard rails, overhead doors and frames, access doors and panels, and fire extinguisher cabinets.
   6. Aluminum Reveals - Acrylic System:
      a. System: Three coats; first coat acrylic DTM primer; second and third coats latex finish.
      b. Sheen: Satin, unless indicated otherwise.
      c. Application: Aluminum reveals if not pre-finished.

~~7. Concrete Floor Stripes - Epoxy System:~~
   ~~a. System: Two coats; first coat epoxy primer sealer, and second coat self-leveling / recoatable epoxy.~~
   ~~b. Sheen: Gloss, unless indicated otherwise.~~
   ~~c. Application: Use on concrete floor or underlayments where painted floor stripes are indicated.~~

I. Colors: As scheduled on the Drawings.

DIVISION 10 - SPECIALTIES

101400 SIGNAGE

A. Summary:
   1. Code required, informational and directional at locations indicated on the Drawings.
   2. Installation of signage.

B. Quality Assurance:
   1. Regulatory Requirements: Signage shall conform to the requirements of the jurisdictional code authorities.

C. Materials:
   1. General: Furnish signage similar to details. For custom signage, font shall be Optima, or approved.
   2. Door Signage: Screen printed or individual letters on self-adhesive vinyl; configuration and text as indicated on the Drawings; colors as directed.

D. Installation:
   1. All graphics shall be mounted level and plumb and in accurate alignment, unless indicated otherwise.
   2. Decals: Adhere to substrate free of bubbles.

102813 TOILET ACCESSORIES

A. Products and Accessories: Provided by the Owner for installation.

B. Installation: Secure each item in accordance with manufacturer's recommendations, and installation instructions, and accessibility requirements.

104416 FIRE EXTINGUISHERS AND CABINETS

A. Submittals: Product literature, including extinguisher dimensions.

B. Extinguishers: Multi-Purpose Dry Chemical Type: Heavy Duty DOT Steel tank; UL rating 2A-10B;C, 5 lb capacity, FM approved; red enamel finish; pressure gage; metal valves and siphon tubes.

C. Fire Extinguisher Cabinets:
   1. Manufacturer: J.L Industries #8100 series is specified as the design standard.
      a. Similar products from the following manufacturers are acceptable subject to the specified requirements.
         1) Potter-Roemer, Inc.
         2) Larsen's Manufacturing Company
      b. Trim style: Fully recessed flat trim model where wall depth allows, or semi recessed (approximately 2-1/2" projection; rolled edge) where required by wall depth.
      c. Door: 2 inch wide vertical, clear tempered glass with pull handle.
      d. Lettering: "Fire Extinguisher" in black lettering, vertical format.
      e. Provide fire-rated model at rated wall construction.
      f. Finish: Manufacturer's standard baked white enamel interior; furnish to Section 099000 for field painting when indicated on the Drawings.

D. Fire Extinguisher Brackets: Manufacturer's standard J-type. Provide at fire extinguisher locations where no cabinet is indicated.

E. Installation:
   1. Install brackets 48 inches from finished floor to top of bracket.
   2. Secure rigidly in place in accordance with manufacturer's instructions.
   3. Install cabinets plumb and level in wall openings in locations as indicated. Unless otherwise indicated, install 30 inches from finished floor to inside bottom of cabinet.
   4. When recessed cabinets are installed in fire rated walls, maintain fire resistance rating continuously behind the cabinet.
   5. Install in locations as indicated on the drawings.

109013 MISCELLANEOUS SPECIALTIES

A. General:
   1. Summary of Items:
      a. Floor Marking Tape
   2. Submittals: Provide manufacturer's product data and installation instructions. Mark as necessary to define size and color proposed.

B. Products:
   1. Floor Marking Tape:
      a. Manufacturer: Shield Mark, Inc. (Rocky River, OH: 800-714-9980).
      b. Product: "Mighty Line", solid, 2 inches wide, PVC floor tape; color, White.
      c. Location: As indicated on the Drawings.

C. Installation:
   1. Preparation: Confirm concrete is clean, free of dirt and oil, and above 55 degrees Fahrenheit.
   2. Install in single lines, straight, and without intermediate seams or joints.
   3. Miter cut all 90 degree corners; skim seal all seams with white silicone to hide transitions.

DIVISION 11 through DIVISION 14

A. Not Used

DIVISION 21 – FIRE SUPPRESSION

210033 DESIGN-BUILD FIRE SUPPRESSION

A. Fire protection systems are design/build, and shall conform to the requirements of the jurisdictional code authorities, and requirements of the Landlord.

B. Sprinkler heads in Retail Sales, Fitting and Display area ceilings shall be the fully-concealed type, finished to match the ceiling they are installed in. Sprinkler heads in the remainder of the store shall be either concealed or semi-recessed, chrome finish with white trim. Confirm type and finish of heads in open to structure ceiling areas with Architect.

C. Fire protection subcontractor shall furnish stamped, signed shop drawings of the sprinkler system prepared by a Professional Engineer licensed to practice in the State where the project is located.

D. Submit approved shop drawings for local Building Department and Fire Marshal review and approval, as submittal for permit, as required.

DIVISION 22 – PLUMBING

A. See Plumbing Drawings.

DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

A. See Mechanical Drawings.

DIVISION 26 - ELECTRICAL

A. See Electrical Drawings.

END

#1519

Northwest Arkansas Mall

SUITE #1195
4201 North Shiloh Drive,
Fayetteville, AR, 72703

CONSULTANT

LGA PARTNERS
444 Liberty Avenue Suite 1500 Pittsburgh, PA 15222
Phone: 412.243.3430 Web: www.LGA-Partners.com

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REGISTERED ARCHITECT
SCOTT BOFINGER
No. 912173
STATE OF ARKANSAS

REVISION DATES

12/05/2025

ORIGINAL ISSUE DATE

PROJECT NO:	25428
DRAWN BY:	
CHECKED BY:	

ARCHITECTURAL SPECIFICATIONS

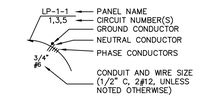
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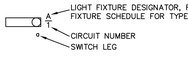
ELECTRICAL SYMBOLS

LIGHTING CONTROL	DESCRIPTION	MOUNTING
S^{X}	SWITCH, WHERE "X" CAN BE ONE OF THE FOLLOWING: 2 = DOUBLE POLE 3 = THREE WAY 4 = FOUR WAY K = KEYED LV = LOW VOLTAGE MC = MOMENTARY WITH RTC OS = OCCUPANCY SENSOR WALL SWITCH (blank) = SINGLE POLE	46"
S_D^{600W}	DIMMER SWITCH, OPERATING WATTAGE INDICATED	46"
S_{PL}	SWITCH WITH PILOT LIGHT	46"
OS_Y^X	OCCUPANCY SENSOR, WHERE "Y" IS THE RATED AREA OF COVERAGE AND "X" IS ONE OF THE FOLLOWING: DT = DUAL TECHNOLOGY US = ULTRASONIC PIR = PASSIVE INFRARED	

DESIGN PRESENTATION	DESCRIPTION
1	KEY NOTE, REFER TO LIST OF KEY NOTES ON THE SAME PLAN
(1)	FEEDER NOTE, REFER TO FEEDER SCHEDULE ON THE SAME PLAN
1	DRAWING REVISION NOTE
	CONCEALED RACEWAY
	RACEWAY INSTALLED IN FLOOR OR BELOW FINISHED GRADE
	EXPOSED RACEWAY
	RACEWAY UP
	RACEWAY DOWN
	CONDUIT STUB, BUSHED AND CAPPED
	UNDERFLOOR DUCT, POWER AND COMMUNICATIONS RACEWAYS

BRANCH CIRCUITING





NOTE:
ALL EXIT SIGN ILLUMINATION AND EMERGENCY LIGHTS SHALL BE PROVIDE WITH 90 MINUTES EMERGENCY BACK-UP POWER IN CASE OF PRIMARY POWER LOSS.

WIRING DEVICE	DESCRIPTION	MOUNTING
	RECEPTACLE OPTIONS DENOTED BY "X", WHERE "X" CAN BE ONE OF THE FOLLOWING: DG = DEDICATED GROUND GFI = GROUND FAULT INTERRUPTER TR = TAMPER RESISTANT SS = SURGE SUPPRESSOR WP = WEATHERPROOF (blank) = STANDARD RECEPTACLE	
x	SIMPLEX RECEPTACLE, NORMAL POWER	18"
x	DUPLEX RECEPTACLE, NORMAL POWER	18"
x	FOURPLEX RECEPTACLE	18"
	FLOOR OUTLET BOX, POWER, VOICE AND/OR DATA	
$^{10-30R}$	SPECIAL PURPOSE RECEPTACLE, WITH NEMA CONFIGURATION NOTED	18"
	DISCONNECT SWITCH, NON-FUSED	
F	DISCONNECT SWITCH, FUSED	
^{MS}	MOTOR STARTER SWITCH WITHOUT OVERLOAD PROTECTION	36" MIN. & 48" MAX.
^{MSS}	MOTOR STARTER SWITCH WITH OVERLOAD PROTECTION	36" MIN. & 48" MAX.
EF-1	MAGNETIC MOTOR STARTER WITH EQUIPMENT NUMBER INDICATED	
EF-1	COMBINATION MOTOR STARTER AND FUSED DISCONNECT WITH EQUIPMENT NUMBER INDICATED	
AHU 1	EQUIPMENT TAG (REFER TO EQUIPMENT SCHEDULE)	
	208/120 VOLT PANELBOARD	
	480/277 VOLT PANELBOARD	
	TERMINAL CABINET	
	ANNUNCIATOR PANEL	

MISCELLANEOUS	DESCRIPTION	MOUNTING
J	JUNCTION BOX, RECESSED WALL	
J	JUNCTION BOX, RECESSED CEILING	
T	LINE VOLTAGE THERMOSTAT	36" MIN. & 48" MAX.
P	PUSHBUTTON	48"
TC	TIME CLOCK	
C	CONTACTOR	
S^{DC}	SECURITY DOOR CONTACTOR	
S^{KP}	SECURITY KEY PAD	
S^{MD}	SECURITY MOTION DETECTOR	
S	SECURITY SIREN	

COMMUNICATIONS	DESCRIPTION	MOUNTING
V	VOICE/DATA OUTLET	18"
C	CHIME	80"
P	PUSH BUTTON	48"
S_1^{AT}	SPEAKER, CEILING MOUNTED WITH TYPE AND ZONE NUMBER INDICATED (REFER TO SPECIFICATION FOR TYPE)	
S^{AT}	SPEAKER, WALL MOUNTED WITH TYPE AND ZONE NUMBER INDICATED (REFER TO SPECIFICATION FOR TYPE)	
T	TELEPHONE	18"
D	DATA	18"

FIRE ALARM	DESCRIPTION	MOUNTING
F^{X}	FIRE ALARM DEVICE, WHERE "X" CAN BE ONE OF THE FOLLOWING:	
(blank)	FIRE ALARM MANUAL PULL STATION	46"
K	FIRE ALARM MANUAL KEYED STATION	46"
I	IONIZATION DETECTOR	
H	THERMAL DETECTOR	
P	PHOTOELECTRIC SMOKE DETECTOR	
DS	DUCT SMOKE DETECTOR	
FL	SPRINKLER VALVE FLOW SWITCH	
B-T	BEAM DETECTOR, TRANSMITTER	
B-R	BEAM DETECTOR, RECEIVER	
RB	ROTATING BEACON	
MM	MONITOR MODULE	
CM	CONTROL MODULE	
D	MAGNETIC DOOR HOLDER	
MR	SHUTTER/ROLLING DOOR RELEASE	
TS	DUCT DETECTOR REMOTE TEST STATION	80"
VDT	VIDEO DISPLAY TERMINAL & KEYBOARD	
PR	SYSTEM EVENT PRINTER	
F_H	FIRE ALARM HORN	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F_S	FIRE ALARM SPEAKER	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F	FIRE ALARM STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F_H	FIRE ALARM HORN WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F_S	FIRE ALARM SPEAKER WITH STROBE	90" OR 6" BELOW FINISHED CEILING WHICH EVER IS LOWER
F	FIREFIGHTER PHONE JACK	46"
FX	SPRINKLER VALVE POSITION SWITCH	

ELECTRICAL SHEET INDEX

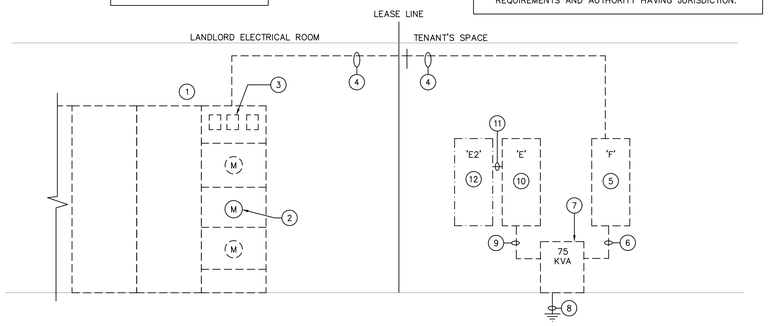
E0.0 ELECTRICAL SCHEDULES & POWER RISER DIAGRAM
E1.0 LIGHTING PLAN AND NOTES
E2.0 POWER PLAN, NOTES AND DETAILS
E3.0 ELECTRICAL SPECIFICATIONS

RISER DIAGRAM NOTES

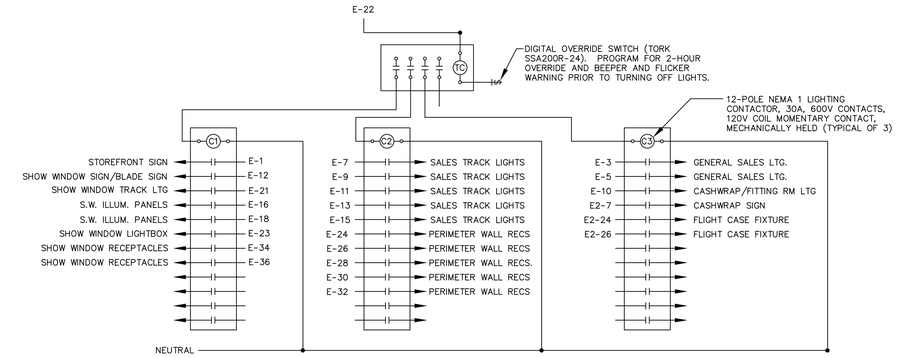
1. EXISTING LANDLORD'S 480/277V, 3PH, 4W ELECTRICAL DISTRIBUTION EQUIPMENT TO REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
2. EXISTING METER AND METER SOCKET TO REMAIN.
3. EXISTING 200A/3P BREAKER TO REMAIN.
4. EXISTING 2" CONDUIT AND 200 AMP FEEDER WIRES TO REMAIN FROM LANDLORD DISTRIBUTION AREA TO TENANT SPACE. FIELD VERIFY ROUTING.
5. EXISTING 480Y/277V, 3PH, 4W ELECTRICAL PANEL 'F' TO REMAIN. REFER TO PANEL SCHEDULE ON THIS SHEET FOR FURTHER INFORMATION.
6. EXISTING CONDUIT AND 100 AMP FEEDER WIRES TO REMAIN.
7. EXISTING 75 KVA, 480V, 3PH, 3W – 208/120V, 3PH, 4W TRANSFORMER TO REMAIN. SEE SHEET E2.0 FOR LOCATION OF ELECTRICAL PANELS AND TRANSFORMER.
8. EXISTING BARE COPPER GROUND TO REMAIN. GROUNDING AND BONDING OF ELECTRICAL SYSTEM SHALL BE PER NEC REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.
9. EXISTING CONDUIT AND 250 AMP FEEDER WIRES TO REMAIN.
10. EXISTING 208Y/120V, 3PH, 4W ELECTRICAL PANEL 'E' TO REMAIN. REFER TO PANEL SCHEDULE ON THIS SHEET FOR FURTHER INFORMATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
11. PROVIDE 1-1/2"C.-4#1, 1#6 GND.
12. RELOCATE EXISTING 208Y/120V, 3PH, 4W ELECTRICAL PANEL 'E2' FROM EXISTING HOUNDSTOOTH STORE SIDE TO THIS LOCATION. REFER TO PANEL SCHEDULE ON THIS SHEET FOR FURTHER INFORMATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.

EXISTING
NEW
RELOCATED

NOTE:
- E.C. TO VERIFY EXISTING ELECTRICAL EQUIPMENT IN THE FIELD. RISER DIAGRAM BASED OFF OF LANDLORD PLANS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- GROUND AND BOND ELECTRICAL SYSTEM PER NEC REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.



1 POWER RISER DIAGRAM
NTS



2 LIGHTING CONTROL DIAGRAM
NOT TO SCALE

24 HOUR POWER REQUIREMENTS	
SCREENS AT BACKWRAP	E2-5
CASHWRAP POWER	E2-19, E2-21, E2-23
STOREFRONT DIGITAL SCREEN	E-25, E-27
DATA CABINET AT RECEIVING DESK	E2-11, E2-13, E2-15, E2-17
FOS SCREENS	E2-18, E2-20

EXISTING PANEL 'F'

Location: Stockroom | Mounting: Surface | AIC: EXISTING | 480Y/277 Volt, 3ø, 4w | Main: MCB 200A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
SPARE		20/1	1		X				2	20/1		SPARE
SPARE		20/1	3			X			4			SPACE
SPARE		20/1	5				X		6			SPACE
75 KVA TRANSFORMER	14.5	100/3 (EXIST)	7		X				8		7.4	
	13.9		9			X		B	10	40/3	7.4	RTU-1
	13.8		11				X		12		7.4	
SPACE			13		X				14		2.9	
SPACE			15			X		B	16	20/3	2.9	RTU-2
SPACE			17				X		18		2.9	
					A 24.8	B 24.2	C 24.1					

CONNECTED KVA: 73.1 — DESIGN DEMAND KVA: 82.1
CONNECTED AMPS: 89.5 — DESIGN DEMAND AMPS: 98.7

PANEL NOTES (APPLICABLE TO ALL PANELS):
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR CIRCUIT BREAKER.
C - PROVIDE GFCI CIRCUIT BREAKER.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

PANEL 'F' LOAD SUMMARY

	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	10.0	1.25	12.5
RECEPTACLES	11.4	1.0	11.4
SIGN	3.6	1.25	4.5
WATER HEATER	1.5	1.0	1.5
HVAC (LARGEST)	22.2	1.25	27.8
HVAC (REMAINING)	8.7	1.0	8.7
HVAC (NONCOINCIDENTAL)	0.0	0.0	0.0
MISCELLANEOUS	15.7	1.0	15.7
TOTAL KVA:	73.1		82.1
TOTAL AMPS:	88.0		98.7

EXISTING PANEL 'E'

Location: Stockroom | Mounting: Surface | AIC: 10,000 | 120/208 Volt, 3ø, 4W | Main: MCB 250A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
STOREFRONT SIGN(S)	1.2	20/1	1		X				2	20/1		SPARE
GENERAL SALES LTG.	0.9	20/1	3			X			4	20/1	0.2	DUCT DETECTORS
GENERAL SALES LTG.	0.8	20/1	5				X	A	6	20/1	0.3	GEN. SALES LTG (EM/EX/NL)
SALES DISPLAY TRACK LIGHTS	1.2	20/1	7		X				8	20/1		SPARE
SALES DISPLAY TRACK LIGHTS	1.2	20/1	9			X			10	20/1	0.3	SALES CASHWRAP/FIT. RM LTG
SALES DISPLAY TRACK LIGHTS	1.2	20/1	11				X		12	20/1	1.2	SHOW WINDOW/BLADE SIGN(S)
SALES DISPLAY TRACK LIGHTS	1.2	20/1	13		X				14	20/1	0.2	DOOR BUZZER
SALES DISPLAY TRACK LIGHTS	0.8	20/1	15			X			16	20/1	0.8	SHOW WINDOW ILLUMINATED PANELS
STOCKROOM LIGHTS/EM/EXIT	0.5	20/1	17	A			X		18	20/1	0.8	SHOW WINDOW ILLUMINATED PANELS
STOCKROOM LIGHTS	0.9	20/1	19		X				20	20/1	1.5	WATER HEATER (EWH-1)
SHOW WINDOW TRACK	0.5	20/1	21			X		A	22	20/1	0.3	TIMECLOCK/CONTACTORS
SHOW WINDOW LIGHTBOX	0.5	20/1	23				X		24	20/1	0.8	PERIMETER DISPLAY FIXTURES POWER
SHOW WINDOW DIGITAL SCREEN	1.8	20/1	25		X				26	20/1	0.6	PERIMETER DISPLAY FIXTURES POWER
SHOW WINDOW DIGITAL SCREEN	1.8	20/1	27			X			28	20/1	0.8	PERIMETER DISPLAY FIXTURES POWER
SALES DISPLAY RECEPTACLES	1.3	20/1	29				X		30	20/1	0.9	PERIMETER DISPLAY FIXTURES POWER
SPARE		20/1	31		X				32	20/1	0.9	PERIMETER DISPLAY FIXTURES POWER
SPARE		20/1	33			X			34	20/1	0.4	SHOW WINDOW RECEPTACLES
SPARE		20/1	35				X		36	20/1	0.4	SHOW WINDOW RECEPTACLES
SPARE		20/1	37		X				38	125/3 (NEW)	5.0	
SPARE		20/1	39			X			40		5.9	NEW PANEL 'E2'
REC/LTG RESTROOM/XEF-1	0.4	20/1	41	D			X		42		4.7	
					A 14.5	B 13.9	C 13.8					

CONNECTED KVA: 42.2 — DESIGN DEMAND KVA: 45.6
CONNECTED AMPS: 120.8 — DESIGN DEMAND AMPS: 126.7

PANEL 'E' LOAD SUMMARY

	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	10.0	1.25	12.5
RECEPTACLES	11.4	1.0	11.4
SIGN	3.6	1.25	4.5
WATER HEATER	1.5	1.0	1.5
HVAC (LARGEST)	0.0	1.25	0.0
HVAC (REMAINING)	0.0	1.0	0.0
MISCELLANEOUS	15.7	1.0	15.7
TOTAL KVA:	42.2		45.6
TOTAL AMPS:	117.2		126.7

PANEL NOTES (APPLICABLE TO ALL PANELS):
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR CIRCUIT BREAKER.
C - PROVIDE GFCI CIRCUIT BREAKER.
D - EXISTING BREAKER AND LOAD TO REMAIN.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

RELOCATED PANEL 'E2'

Location: Stockroom | Mounting: Surface | AIC: 10,000 | 208Y/120 Volt, 3ø, 4w | Main: MCB 125A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
SPARE		20/1	1		X				2	20/1	0.4	MANAGERS OFFICE RECEPTACLES
RECEIVING DESK RECEPTACLES	1.1	20/1	3			X			4	20/1	0.2	MANAGERS OFFICE RECEPTACLES
CASHWRAP SCREENS	0.5	20/1	5				X		6	20/1	0.4	MANAGERS OFFICE RECEPTACLES
CASHWRAP SIGN	1.2	20/1	7		X				8	20/1	0.4	STAFF AREA RECEPTACLES
REFRIGERATOR	0.5	20/1	9	C		X			10	20/1		SPARE
COMMS CAB./TELEPHONE BOARD	0.4	20/1	11				X	A	12	20/1	1.0	EAS POWER
COMMS CAB./TELEPHONE BOARD	0.4	20/1	13		X				14	20/1	0.4	HVAC UNIT RECEPTACLES
COMMS CAB./TELEPHONE BOARD	0.4	20/1	15			X		C	16	20/1	0.5	DRINKING FOUNTAIN
COMMS CAB./TELEPHONE BOARD	0.4	20/1	17				X		18	20/1	0.4	FOS SCREEN DISPLAYS
CASHWRAP POS RECEPTACLE	0.2	20/1	19		X				20	20/1	0.4	FOS SCREEN DISPLAYS
CASHWRAP POS RECEPTACLE	0.2	20/1	21			X			22	20/1	0.8	BOH CONVENIENCE RECEPTACLES
CASHWRAP POS RECEPTACLE	0.2	20/1	23				X		24	20/1	1.0	FLIGHT CASE FIXTURE CEILING POWER
CASHWRAP CONV. RECEPTACLES	0.6	20/1	25		X				26	20/1	1.0	FLIGHT CASE FIXTURE CEILING POWER
MOTORIZED ROLLING GRILLE	1.8	20/1	27			X			28	20/1	0.4	SALES DISPLAY POWER
SPARE		20/1	29				X		30	20/1	0.4	SALES DISPLAY POWER
SPACE			31		X				32			SPACE
SPACE			33			X			34			SPACE
SPACE			35				X		36			SPACE
SPACE			37		X				38			SPACE
SPACE			39			X			40			SPACE
SPACE			41				X		42			SPACE
					A 5.0	B 5.9	C 4.7					

CONNECTED KVA: 15.6 — DESIGN DEMAND KVA: 15.9
CONNECTED AMPS: 49.2 — DESIGN DEMAND AMPS: 44.2

PANEL 'E2' LOAD SUMMARY

	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	0.0	1.25	0.0
RECEPTACLES	5.1	1.0	5.1
SIGN	1.2	1.25	1.5
WATER HEATER	0.0	1.0	0.0
HVAC (LARGEST)	0.0	1.25	0.0
HVAC (REMAINING)	0.0	1.0	0.0
MISCELLANEOUS	9.3	1.0	9.3
TOTAL KVA:	15.6		15.9
TOTAL AMPS:	43.3		44.2

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PROJECT STATUS

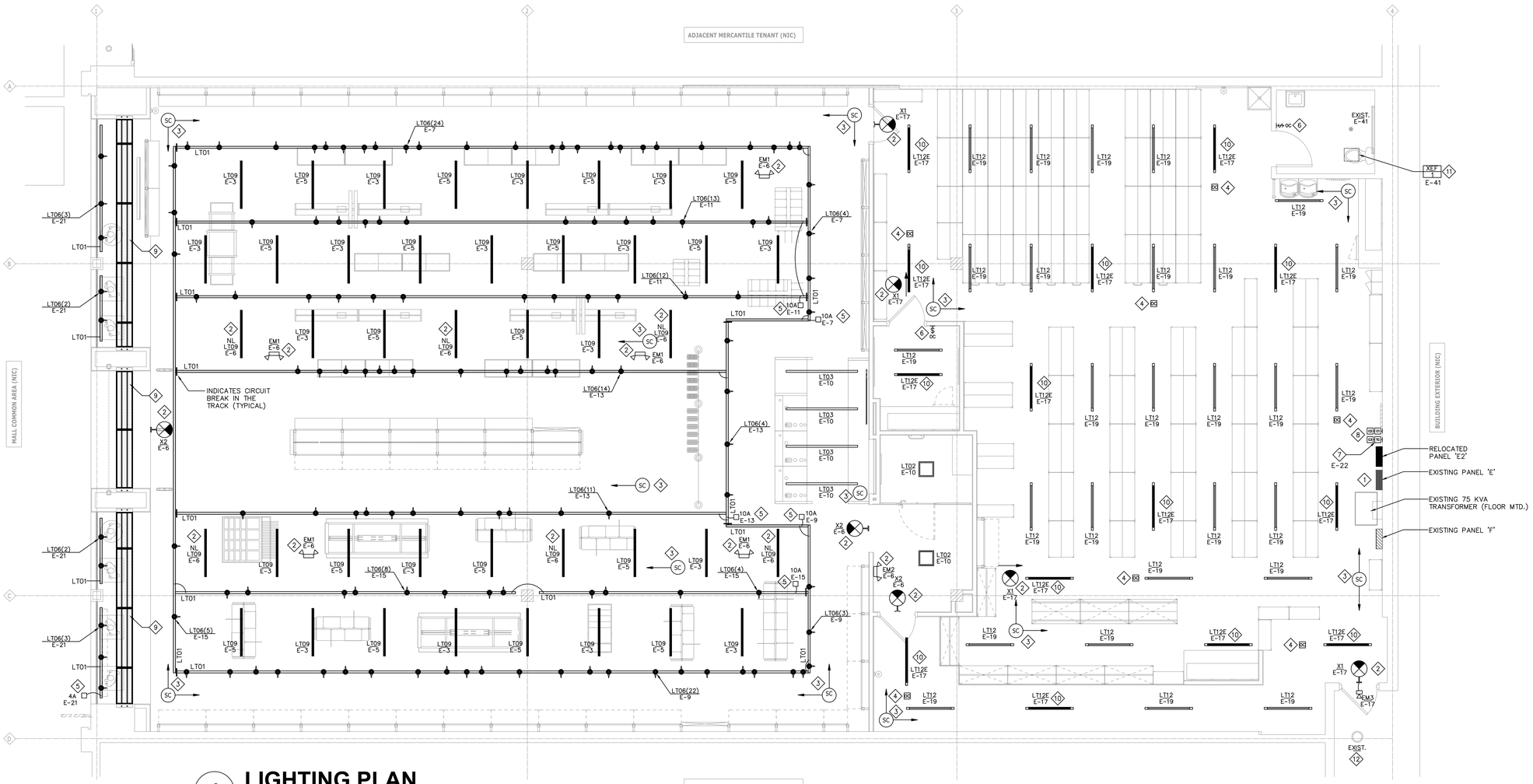
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DRAWN BY:	BJK
CHECKED BY:	DJQ/PJF

ELECTRICAL SCHEDULES & POWER RISER DIAGRAM

E0.0



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

LIGHT FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER/MODEL	HEIGHT	FINISH	COMMENTS
LT-01 XTS4300-2	TRACK	JUNO #T-8FT/4FT-BL	11'-2" AFF (TO BOTTOM)	BLACK	TRACKS TO BE CONNECTED TYP. 5'-0" AWAY FROM PERIMETER WALLS
LT02 FR_LT_01	15" x 15" LED FLAT PANEL 120V, 30 WATTS	RP LIGHTING #4330VWV-4K-T-WW-4K	SURFACE MOUNTED	WHITE	FITTING ROOM CUBICLES AND VESTIBULE
LT03 LT_03_JL_AG	6'-0" BOP LIGHTS 120V, 42 WATTS	PURE EDGE LIGHTING #P2SD-7W-2R-72"-40K-SN	w/ CANOPY: 9'-0" AFF w/o CANOPY: 9'-10" AFF	SATIN NICKEL	TRACKS TO BE CONNECTED TYP. 5'-0" AWAY FROM PERIMETER WALLS
LT06 LT_06_JL_AG	TRACK HEAD 120V, 28 WATTS	SOLAIS #LCM-1-NFZ-40-2300-BK-J	MOUNTED TO BOTTOM OF TRACK	BLACK	1 LIGHT PER PERIMETER BAY 2 LIGHTS PER EACH SIDE OF FLIGHT CASES 2 LIGHTS PER EACH FLOOR FIXTURE
LT09 LT_09_JL_SO_CR	4'-0" LINEAR TECH BATTENS 120V, 45 WATTS	MOBERN #L23P-SF-48-LED-45-DMV-BK-40	11' - 2" AFF (TO BOTTOM)	BLACK	6'-0" O.C. STAGGER BETWEEN ROWS
LT12 LT_12_JL_AG	4'-0" LINEAR LIGHT 120V, 31 WATTS	PHILIPS #FSS440L-840-UNV-DIM	SURFACE MOUNTED (UNLESS NOTED OTHERWISE)	WHITE	HEIGHTS VARY DEPENDING ON HEIGHT OF ADJACENT RACKING. TYP. 18" ABOVE RACKING. SPACING TO BE 10'-0" O.C. CENTERED IN THE STOCKROOM RACKING AISLES.
LT12E	4'-0" LINEAR LIGHT W/ EMERGENCY BACKUP 120V, 31 WATTS	PHILIPS #FSS440L-840-UNV-DIM-EMLED	SURFACE MOUNTED (UNLESS NOTED OTHERWISE)	WHITE	HEIGHTS VARY DEPENDING ON HEIGHT OF ADJACENT RACKING. TYP. 18" ABOVE RACKING. SPACING TO BE 10'-0" O.C. CENTERED IN THE STOCKROOM RACKING AISLES.
EM1	EMERGENCY LIGHT W/INTEGRAL 90 MINUTE BATTERY BACKUP. (2) LEDS INCLUDED. 120V, 10.8 WATTS	BEGHELLI LIGHTING # BBX-SE-LO-BLK	11'-2" A.F.F. (TO BOTTOM)	BLACK	PROVIDE WITH MINIMUM 90 MINUTE BATTERY BACK-UP.
EM2	EMERGENCY LIGHT W/INTEGRAL 90 MINUTE BATTERY BACKUP. (2) LEDS INCLUDED. 120V, 10 WATTS	EXITRONIX # LED90	HEIGHT PER ARCHITECTURAL ELEVATIONS.	WHITE	PROVIDE WITH MINIMUM 90 MINUTE BATTERY BACK-UP.
EM3	VR SERIES REMOTE EMERGENCY HEAD (1) 6 WATT HALOGEN INCLUDED. 6V, 6 WATTS	EXITRONIX # VR-V1T-WD	ABOVE DOOR	WHITE	REMOTE EMERGENCY LIGHT TO BE CONNECTED TO EXIT SIGN.. FIXTURE TO BE COMPATIBLE WITH EXIT SIGN.
X1	THERMOPLASTIC EXIT SIGN LED INCLUDED CLEAR 120V, 3 WATTS	EXITRONIX # VEX-U-WB-BL		BLACK	EXIT SIGN
X2	EDGE LIT EXIT SIGN LED INCLUDED CLEAR 120V, 3 WATTS	COOPER LIGHTING #EU-S-70-R		BLACK	EXIT SIGN. BACK OF SIGN COVERED WITH REFLECTIVE FILM.

LIGHTING PLAN - KEY NOTES

1. ELECTRICAL SERVICE EQUIPMENT LOCATION. REFER TO SHEET E0.0 FOR RISER DIAGRAM AND PANEL SCHEDULES.
2. EXIT SIGNS/EMERGENCY/NIGHT LIGHTS TO BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT SHOWN.
3. VIDEO SURVEILLANCE SYSTEM DEVICE. E.C. SHALL REFER TO SECURITY DRAWINGS FOR ADDITIONAL INFORMATION, AND MOUNTING REQUIREMENTS.
4. PROVIDE LUTRON SENSOR #LOS-CDT-2000R-WH CEILING 360 DEGREE SENSOR WITH (2) POWER PACKS TO CONTROL LIGHTING CIRCUITS IN THE STOCKROOM. SENSORS TO BE AT HEIGHT OF BOH LIGHT FIXTURES.
5. LIGHTING VENDOR TO PROVIDE JUNO CURRENT LIMITING END FEED FOR TRACK LIGHTING. CIRCUIT TO BEGIN AT THIS TRACK SECTION. CONNECT ALL TRACK SECTIONS OF THE SAME CIRCUIT DOWN STREAM OF THIS TRACK SECTION. REFER TO CURRENT LIMITING DEVICE SCHEDULE THIS SHEET FOR FURTHER INFORMATION.
6. PROVIDE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER: DW-100-24. PROVIDE BZ-50 POWER PACKS, AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES. IN RESTROOM, FAN AND LIGHT SWITCH TO BE CONTROLLED BY WALL SWITCH/SENSOR.
7. PROVIDE DIGITAL TIME CLOCK (INTERMATIC #ET2145C) 4-CHANNEL, 7-DAY, MOMENTARY CONTACTS WITH MANUAL OVERRIDE, BATTERY BACK-UP, AND NEMA 1 ENCLOSURE. REFER TO CONTACTOR SCHEDULE AND LIGHTING CONTROL DIAGRAM ON SHEET E0.0 FOR FURTHER INFORMATION. COORDINATE SETTINGS WITH STORE OPERATIONS.
8. PROVIDE SQUARE D CONTACTORS MODEL #8903LG1200V02. REUSE EXISTING SQUARE D CONTACTORS IF THE MEET REQUIREMENTS IN DETAIL #2 ON SHEET E0.0.
9. REFER TO SHEET E2.0 FOR POWER REQUIREMENTS OF SHOW WINDOW YELLOW ILLUMINATED PANELS.
10. TYPE LT12E LIGHT FIXTURE TO BE CONTROLLED BY OCCUPANCY SENSORS. PROVIDE A SEPARATE UNSWITCHED HOT TO THE EMERGENCY DRIVER OF EACH FIXTURE FOR VOLTAGE SENSING.
11. EXISTING LIGHTING AND EXHAUST FAN IN THIS ROOM TO REMAIN.
12. EXISTING LIGHT FIXTURE TO REMAIN. CONNECTED TO LANDLORD PANELS.

GENERAL NOTES

A. REMOVE ALL EQUIPMENT, PANELBOARDS, DEVICES, FIXTURES, WIRING, CONDUIT, ETC. AND ALL ASSOCIATED SUPPORTS, BRACING, PADS, ETC. NOT BEING REUSED OR SHOWN TO REMAIN WHETHER IN THE DEMISED SPACE, ON THE ROOF OR OTHERWISE LOCATED OUTSIDE OF THE DEMISED SPACE. DO NOT ABANDON IN PLACE.

B. ALL 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75' SHALL HAVE CONDUCTOR SIZE INCREASED A MINIMUM OF 1 CONDUCTOR SIZE. INSTALLING CONTRACTOR SHALL DETERMINE ACTUAL CONDUCTOR SIZE TO BE INSTALLED TO ADHERE TO VOLTAGE DROP REQUIREMENTS.

C. PROVIDE A NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT. NEUTRAL SHARING IS NOT ALLOWED.

D. INSTALL TENANT'S FURNISHED LIGHT FIXTURES TO MEET THE REQUIREMENTS OF NEC SECTION 410-130(G) REGARDING LOCAL DISCONNECTING MEANS.

E. REFER TO ARCHITECTURAL DRAWINGS, INCLUDING BUT NOT LIMITED TO, REFLECTED CEILING PLANS AND ELEVATIONS FOR ASSOCIATED NOTES, MOUNTING DETAILS AND EXACT LOCATIONS OF ALL LIGHTING FIXTURES.

F. SECURITY LOCATIONS, PROVIDE CONDUIT AND J-BOX AT LOCATIONS INDICATED. PULL CAT-5E CABLE TO SECURITY CONTROL UNIT. COORDINATE WITH TENANT SECURITY VENDOR.

CURRENT LIMITING DEVICE SCHEDULE

E.C. TO PROVIDE ALL COMPONENTS

TAG	JUNO CATALOG #	DESCRIPTION	WATTAGE
4A	ELECTRICAL FEED: TCLFM11 BL CIRCUIT BREAKER: TCLCB 4A BLCK	SINGLE CIRCUIT MINI END FEED 4A CURRENT LIMITING C.B.	480W
10A	ELECTRICAL FEED: TCLFM11 BL CIRCUIT BREAKER: TCLCB 10A BLCK	SINGLE CIRCUIT MINI END FEED 10A CURRENT LIMITING C.B.	1200W

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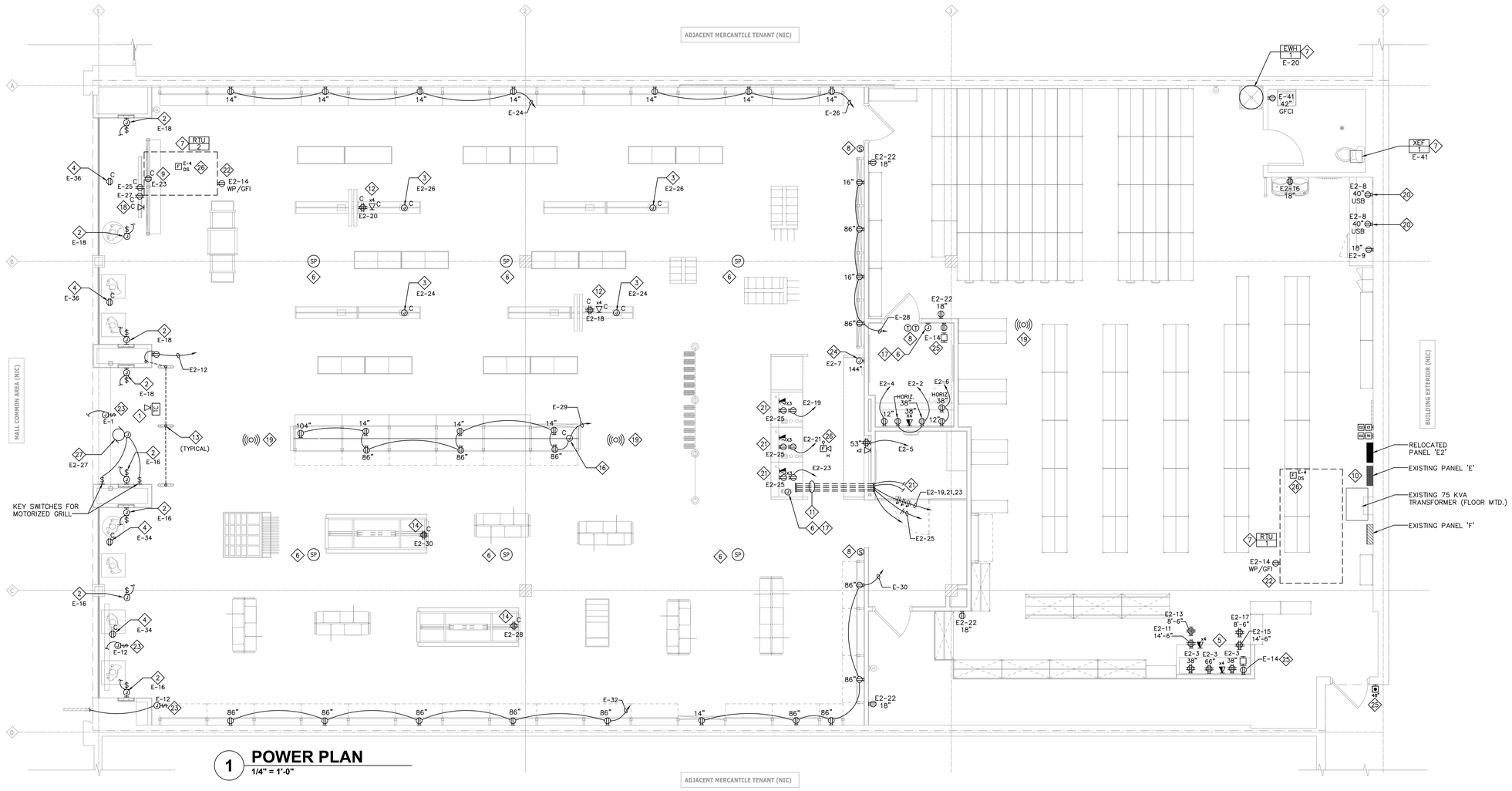
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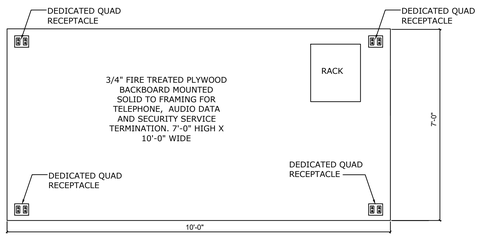
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LIGHTING PLAN AND NOTES

E1.0



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



BACKBOARD SPECS:
1. HEIGHT - 7'-0", WIDTH - 10'-0"
2. ELECTRICAL: 4 ELECTRICAL DEDICATED QUADS AT EACH CORNER OF THE BACKBOARD
3. BACKBOARD SHOULD BE UP HIGH TO ALLOW SPACE FOR EMPLOYEES. IF THIS IS UNACHIEVABLE THEN PLACE THE BACKBOARD ELSEWHERE.

RACK POSITION: POSITION RACK AT THE TOP RIGHT OF THE BACKBOARD NEXT OT THE QUAD IN THE TOP RIGHT CORNER.

CONDUIT: DO NOT RUN CONDUITS IN THE MIDDLE OF THE BACKBOARD.

2 BACKBOARD DETAIL
NO SCALE

POWER PLAN - GENERAL NOTES

A. MATCH FINISH OF OUTLET COVERS WITH ADJACENT FINISHES.

B. INCREASE CONDUCTOR SIZE FOR 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75' A MINIMUM OF 1 CONDUCTOR SIZE. DETERMINE ACTUAL CONDUCTOR SIZE AND ADHERE TO VOLTAGE DROP REQUIREMENTS.

C. PROVIDE A NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT. NEUTRAL SHARING IS NOT ALLOWED.

D. GROUND AND BOND ELECTRICAL SYSTEM PER NEC REQUIREMENTS AND AUTHORITY HAVING JURISDICTION.

E. PROVIDE ALL CONDUITS AND CABLES. COORDINATE WITH TENANT AND TENANT VENDORS.

F. PROVIDE PLENUM RATED LOW VOLTAGE CABLING. INSTALL IN CONDUIT IF REQUIRED BY LOCAL CODE OR MALL.

G. OBTAIN AND PAY FOR SEPARATE PERMIT FOR COMMUNICATION SYSTEMS NOT PART OF THE BASE PERMIT.

H. MOUNT RECEPTACLES IN SALES AREA HORIZONTALLY.

I. RECEPTACLE HEIGHTS SHOWN TO CENTERLINE OF DEVICE.

POWER PLAN KEY NOTES

1. PROVIDE CEILING MOUNTED DATA OUTLET FOR TRAFFIC COUNTER. VERIFY EXACT LOCATION WITH ARCHITECT AND LOW VOLTAGE VENDOR.
2. PROVIDE J-BOX AND DISCONNECTING MEANS IN ACCESSIBLE LOCATION FOR POWER CONNECTION TO ILLUMINATED PANELS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN. VERIFY POWER REQUIREMENTS WITH PANEL SHOP DRAWINGS.
3. PROVIDE PENDANT MOUNTED JUNCTION BOX FOR CONNECTION TO DISPLAY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PROJECT MANAGER.
4. PROVIDE RECEPTACLE WITHIN 18" OF TOP OF GLAZING PER NEC REQUIREMENTS.
5. LOCATION OF TELEPHONE BOARD AND ASSOCIATED EQUIPMENT. SEE A.T.S. BACKBOARD ELEVATION DETAIL #2 ON THIS SHEET FOR MORE INFORMATION.
6. SEE SOUND SYSTEM VENDOR INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION.
7. MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
8. RUN 3/4" CONDUIT WITH PULL-STRING FROM REMOTE SENSOR/ THERMOSTAT TO UNIT IT SERVES.
9. PROVIDE CEILING OR WALL MOUNTED DUPLEX RECEPTACLE IN ACCESSIBLE LOCATION FOR POWER CONNECTION TO STOREFRONT LIGHTBOX. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
10. LOCATION OF TENANT'S ELECTRICAL SERVICE EQUIPMENT. REFER TO POWER RISER DIAGRAM AND PANELBOARD SCHEDULES ON SHEET E0.0.
11. TRENCH FLOOR FOR ROUTING OF (5) 1" CONDUITS TO CASH WRAP. (1) FOR DEDICATED POWER, (1) FOR NORMAL POWER, (2) FOR VOICE/DATA, (1) SPARE. PATCH AS REQUIRED. E.C. TO VERIFY WITH LANDLORD REQUIREMENTS, PRIOR TO START OF WORK.
12. PROVIDE SINGLE RJ45 DATA JACKS AND QUAD RECEPTACLE AS INDICATED. COORDINATE EXACT MOUNTING METHOD, HEIGHT, AND LOCATION PRIOR TO ROUGH-IN.
13. EAS PEDESTAL ANTENNAS. TRENCH AND/OR CORE BORE FOR EAS LOW VOLTAGE CABLE TO EACH PEDESTAL. PROVIDE (1) 1-1/2" PVC CONDUIT FOR UNDERGROUND INSTALLATION WITH PULLSTRING, FROM PEDESTAL TO PEDESTAL AND FROM THE LAST PEDESTAL TO A FULL HEIGHT WALL AND STUB INTO AN ACCESSIBLE CEILING SPACE WITH EMT CONDUIT FOR FUTURE EAS CABLES (BY EAS). COORDINATE WITH EAS VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS FOR EAS EQUIPMENT ROUGH-IN. PEDESTALS SHALL BE DAISY CHAINED TOGETHER.
14. QUAD RECEPTACLE SUSPENDED FROM THE CEILING FIXTURE TO CONNECT VIA COILED WIRE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PROJECT MANAGER.
15. NOT USED.
16. PROVIDE POWER FROM CEILING, PIPE DOWN AND DISTRIBUTE POWER WITHIN THE FIXTURE AS INDICATED.
17. JUNCTION BOX FOR AUDIO CONTROL. REQUIRED 1 GANG BOX WITH 1/2" CONDUIT STUB UP PROVIDED BY OTHERS.
18. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLES AND (1) DATA OUTLET IN ACCESSIBLE LOCATION FOR POWER CONNECTION TO STOREFRONT DIGITAL SCREEN. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
19. INSTALL CEILING MOUNTED DATA OUTLET FOR (1) CAT 6a (PLENUM RATED) CABLE FOR WIRELESS ACCESS POINT (WAP).
20. PROVIDE DUPLEX RECEPTACLE WITH USB-A AND USB-C PORTS. LEVITON #T-5633W OR APPROVED EQUAL.
21. PROVIDE FLUSH MOUNTED VOICE/DATA OUTLET AT CASH WRAP. PROVIDE CONDUIT AND PULL WIRE BACK TO PHONE BOARD IN STOCKROOM, 3/4" MINIMUM, BUSH CONDUIT ENDS. COORDINATE ALL TELEPHONE CABLING REQUIREMENTS WITH TENANT PROJECT MANAGER.
22. WP/GFCI DUPLEX RECEPTACLE PROVIDED WITH UNIT. PROVIDE 120V CONNECTION AS INDICATED.
23. PROVIDE J-BOX AND DISCONNECTING MEANS IN ACCESSIBLE LOCATION FOR POWER CONNECTION TO STOREFRONT SIGN. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN. WHERE THE SIGN IS NOT PROVIDED WITH AN INTEGRAL DISCONNECT MEANS, PROVIDE FLUSH-MOUNTED, LOCAL DISCONNECT SWITCH INSTALLED IN A CONCEALED, BUT ACCESSIBLE, LOCATION WITHIN SITE. WHERE THIS IS NOT POSSIBLE, PROVIDE LOCK-OUT, TAG-OUT BREAKER IN SOURCE PANELBOARD IN LIEU OF LOCAL DISCONNECT SWITCH AND A LABEL INSIDE THE SIGN ENCLOSURE IDENTIFYING THE BREAKER'S LOCATION PER NEC 600.6(A)(2).
24. LOCATION OF TENANT LOCK-UP SIGN. INSTALL A WHIP THRU WALL BEHIND THE POWER SUPPLY ACCESS PANEL AND MAKE FINAL CONNECTIONS.
25. TENANT'S ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL THE FOLLOWING WIRELESS SERVICE BELL SYSTEM.

    AVANTEK #DB-12 DOORBELL KIT IN BLACK. MOUNT ONE CHIME IN THE MANAGER'S OFFICE AND ONE CHIME NEAR THE RECEIVING DESK.
26. DUCT SMOKE DETECTOR WILL BE FURNISHED WITH THE UNIT AND INSTALLED BY MECHANICAL CONTRACTOR. TENANT'S ELECTRICAL CONTRACTOR SHALL PROVIDE A J-BOX FOR POWER CONNECTION TO DUCT SMOKE DETECTORS. ELECTRICAL CONTRACTOR SHALL MAKE FINAL POWER AND CONTROL CONNECTIONS. INSTALL ALARM ON WALL IN BACK OF HOUSE AREA. VERIFY LOCATION OF VISUAL INDICATOR LIGHTS. INTERLOCK RTU START SO UNIT SHUTS DOWN IN EVENT OF DUCT DETECTOR ACTIVATION. LOCATE RESET SWITCHES (RS) ADJACENT TO ELECTRICAL PANELS. TIE INTO BUILDING FIRE ALARM SYSTEM IF APPLICABLE.
27. PROVIDE J-BOX AND 120V POWER TO MOTORIZED ROLLING GRILLE. VERIFY ELECTRICAL REQUIREMENTS WITH GRILLE MANUFACTURER.

MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT TAG	EQUIPMENT NAME	VOLT/ PHASE	MCA	MOCP	HP	KW	CONDUIT - WIRE	STARTER BY	STARTER TYPE STARTER SIZE	DISCONNECT BY	DISC. SWITCH	FUSE SIZE	PANEL	CIRCUIT NUMBER	NOTE
RTU-1	ROOF TOP UNIT	480/3	33	40			3/4"C. 3#8, 1#10 GND.	DIV-15	W/UNIT	DIV-16	60A/3P	NA	F	8,10,12	
RTU-2	ROOF TOP UNIT	480/3	13	20			3/4"C. 3#12, 1#12 GND.	DIV-15	W/UNIT	DIV-16	30A/3P	NA	F	14,16,18	
EWH-1	WATER HEATER	120/1				1.5	3/4"C. 2#12, 1#12 GND.	NA	NA	DIV-16	30A/1P	NA	E	20	
sEF-1	EXISTING EXHAUST FAN	120/1				FRAC	3/4"C. 2#12, 1#12 GND.	NA	NA	NA	WALL SWITCH	NA	E	41	

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HEI PROJECT NO.:	R25-5119.031
DRAWN BY:	BJK
CHECKED BY:	DJQ/PJF

POWER PLAN, NOTES AND DETAILS

E2.0

16010 - GENERAL PROVISIONS

A. WORK CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN IN THE CONTRACT DOCUMENTS AND SPECIFIED IN DIVISION 16.
B. INCLUDE ALL PARTS AND LABOR, WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS. SUCH ITEMS INCLUDE NUTS, BOLTS, ANCHORS, BRACKETS, SLEEVES, OFFSETS IN CONDUIT, FITTINGS, RELAYS, ETC.
C. ARRANGE WITH LANDLORD TO PROVIDE TEMPORARY AND PERMANENT UTILITY SERVICES AS REQUIRED AND COORDINATE THEIR INSTALLATION WITH CONSTRUCTION PROGRESS OF THIS PROJECT. PAY ALL FEES AND COSTS CHARGED BY UTILITY COMPANIES FOR UTILITY SERVICES.
D. OBTAIN ALL TEMPORARY AND PERMANENT PERMITS AND LICENSES REQUIRED IN CONNECTION WITH THIS DIVISION'S WORK. PAY ALL FEES AND EXPENSES REQUIRED FOR SUCH PERMITS AND LICENSES.
E. REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING AGENCIES OF INSTALLATIONS OF PLANS AND SPECIFICATIONS.
F. INCLUDE STATE AND LOCAL SALES TAXES IN THE BID. KEEP ACCURATE RECORDS OF THESE TAXES AND FURNISH SUCH RECORDS TO THE TENANT UPON REQUEST.
G. MEET OR EXCEED ALL CURRENT APPLICABLE CODES, ORDINANCES AND REGULATIONS FOR ALL INSTALLATIONS. PROMPTLY NOTIFY THE ENGINEER, IN WRITING, IF THE CONTRACT DOCUMENTS APPEAR TO CONFLICT WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COSTS FOR CORRECTING NON-COMPLYING WORK INSTALLED WITHOUT NOTIFYING THE ENGINEER.
H. HIGHER QUALITY OF WORKMANSHIP AND MATERIALS INDICATED IN THE CONTRACT DOCUMENTS TAKES PRECEDENCE OVER THAT ALLOWED IN REFERENCED CODES AND STANDARDS.
I. THE TERMS DEFINED BELOW APPLY TO ALL WORK INCLUDED IN DIVISION 16.
   1. THE WORK - AS DEFINED IN THE 1997 AIA DOCUMENT A201: "THE TERM 'WORK' MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER LABOR, MATERIALS, EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTOR'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT."
   2. FURNISH - TO OBTAIN IN NEW CONDITION READY FOR INSTALLATION INTO THE WORK.
   3. INSTALL - TO STORE, SET IN PLACE, CONNECT AND PLACE INTO OPERATION INTO THE WORK.
   4. PROVIDE - TO FURNISH AND INSTALL.
   5. CONNECT - TO BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENT INCLUDING NECESSARY SWITCHES, OUTLETS, BOXES, TERMINATIONS, ETC.
   6. CONDUIT - INCLUDES IN ADDITION TO CONDUIT, ALL FITTINGS, PULL BOXES, HANGERS AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH CONDUIT.
   7. CONCEALED - HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES OR BURIED.
   8. EXPOSED: NOT INSTALLED UNDERGROUND NOR CONCEALED AS DEFINED ABOVE.

J. THE DRAWING AND SPECIFICATIONS CONSTITUTE THE CONTRACT DOCUMENTS. ANY ITEM NOTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS IS INCLUDED IN THE CONTRACT DOCUMENTS.
KK. ALL ELECTRICAL DETAILS AND DRAWINGS ARE DIAGRAMMATIC. UNLESS SPECIFICALLY NOTED, FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES, IN WRITING, PRIOR TO INSTALLATION.
L. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS REQUIRED WITH THIS WORK IN ACCORDANCE WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OTHER GOVERNING AGENCIES.
M. DO NOT REMOVE OR DISTURB ANY ASBESTOS CONTAINING MATERIALS FROM THE PROJECT. IMMEDIATELY STOP WORK AND NOTIFY THE TENANT IF ASBESTOS CONTAINING MATERIALS ARE SUSPECTED.
N. BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EXAMINE THE SITE OF THE PROPOSED WORK AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND LIMITATIONS. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED NOR BIDDERS LACK OF KNOWLEDGE OF EXISTING CONDITIONS WHICH COULD HAVE BEEN DISCOVERED OR REASONABLY ANTICIPATED PRIOR TO BIDDING.
O. CONDUITS, PIPES, DUCTS, LIGHTS, DEVICES, SPEAKERS, ETC., SHOWN ON THE DRAWINGS AS EXISTING HAVE BEEN BASED ON EXISTING PLANS AND MAY NOT BE INSTALLED AS ORIGINALLY SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTENCE, LOCATION AND CONDITION OF SUCH FACILITIES PRIOR TO SUBMITTING A BID.
P. CONSULT THE DRAWINGS AND SPECIFICATIONS OF MECHANICAL AND OTHER TRADES FOR CORRELATING INFORMATION AND LAY OUT WORK SO THAT IT WILL COORDINATE WITH OTHER TRADES. VERIFY DIMENSIONS AND CONDITIONS (I.E., FINISHED CEILING HEIGHTS, FOOTING AND FOUNDATION ELEVATIONS, BEAM DEPTHS, ETC.) WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT CANNOT BE RESOLVED, IN THE FIELD, BY AFFECTED TRADES. REPLACEMENT OF WORK DUE TO LACK OF COORDINATION AND FAILURE TO VERIFY EXISTING CONDITIONS WILL BE COMPLETED AT NO COST TO THE TENANT.
Q. INSTALL ALL CONDUIT, CABLE TRAY, BUSDUCT, EQUIPMENT, ETC. ALLOWING PROPER CODE AND MAINTENANCE CLEARANCES AND TO AVOID BLOCKING PASSAGEWAYS AND ACCESS PANELS.
R. WHERE WORK MUST BE REPLACED DUE TO THE FAILURE OF THE CONTRACTOR TO VERIFY THE CONDITIONS EXISTING ON THE JOB, SUCH REPLACEMENT MUST BE ACCOMPLISHED AT NO COST TO THE TENANT. THIS APPLIES TO SHOP FABRICATED WORK AS WELL AS TO WORK FABRICATED IN PLACE.
S. THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE INSTALLATION MAY BE REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE TENANT, WHERE SUCH ADJUSTMENTS ARE NECESSARY TO THE PROPER INSTALLATION AND OPERATION WITHIN THE INTENT OF THE CONTRACT DOCUMENTS. THIS DOES NOT INCLUDE WORK ALREADY COMPLETED.
T. OBTAIN EXACT LOCATION OF CONNECTION TO EQUIPMENT, FURNISHED BY OTHERS, FROM THE PERSON FURNISHING THE EQUIPMENT.
U. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN EITHER ONE IS AS BINDING AS IF CALLED FOR IN BOTH.
V. INCLUDE THE BETTER QUALITY, GREATER QUANTITY OR HIGHER COST FOR AN ITEM OR ARRANGEMENT WHERE A DISAGREEMENT EXISTS IN THE DRAWINGS AND SPECIFICATIONS.
W. GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF THE WORK AS EVIDENCED BY ISSUANCE OF THE FINAL CERTIFICATE BY THE ARCHITECT.
X. DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE TENANT AND ARCHITECT AND ENGINEER. INCLUDE DAMAGE TO THE FINISH OR THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS.
Y. REPLACE ALL RECEPTACLES, SWITCHES, COVERPLATES, ETC., DAMAGED BY ANY CONTRACTOR DURING THE COURSE OF CONSTRUCTION.
Z. MATERIALS FURNISHED FOR THE TEMPORARY LIGHT AND POWER SYSTEM REMAIN CONTRACTORS PROPERTY. REMOVE WHEN THERE IS NO LONGER ANY NEED FOR TEMPORARY LIGHT AND POWER OR WHEN DIRECTED BY THE ARCHITECT..
AA. COORDINATE/SCHEDULE ALL WORK WITH THE TENANT TO MINIMIZE ANY DISRUPTIONS. CONFINE ALL INTERRUPTIONS TO THE SMALLEST POSSIBLE AREA. PROVIDE TEMPORARY CONNECTIONS IF REQUIRED TO PROVIDE CONTINUITY OF SERVICE.
BB. INSPECT ALL AREAS AFFECTED BY THE INTERRUPTIONS AND RETURN ALL AUTOMATICALLY CONTROLLED EQUIPMENT, ELECTRICALLY OPERATED EQUIPMENT TO THE SAME OPERATING CONDITION PRIOR TO THE INTERRUPTION.
CC. NO FIRE ALARM SYSTEMS ARE TO REMAIN INACTIVE AT THE END OF THE WORK DAY. ASSURE THAT THE FIRE ALARM SYSTEM IS OPERATIONAL AT THE END OF EACH WORK DAY. COORDINATE WITH THE LANDLORD.
DD. DO NOT DISTURB NORMAL USE OF THE FACILITY, EXCEPT WITHIN THE IMMEDIATE CONSTRUCTION AREA. KEEP WALKS, DRIVEWAYS, ENTRANCES, ETC. FREE AND CLEAR OF EQUIPMENT, MATERIAL AND DEBRIS.
EE. STORE ALL EQUIPMENT AND MATERIAL IN A PLACE AND MANNER THAT MINIMIZES CONGESTION AND IS APPROVED BY THE TENANT.
FF. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.
GG. PROVIDE THE HIGHEST QUALITY WORKMANSHIP AND PERFORM ALL WORK ONLY BY SKILLED MECHANICS. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, INSTRUCTIONS AND CURRENT NECA STANDARDS.
HH. THE TENANT RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE SPECIFICATIONS, BEFORE OR AFTER INSTALLATION.
II. PERFORM ALL CUTTING AND PATCHING NECESSARY TO WORK, UNLESS SPECIFICALLY DELEGATED TO THE GENERAL CONTRACTOR. OBTAIN SPECIAL PERMISSION FROM THE LANDLORD BEFORE CUTTING STRUCTURAL MEMBERS OR FINISHED MATERIAL. PERFORM ALL PATCHING IN SUCH A MANNER AS TO LEAVE NO VISIBLE TRACE AND RETURN THE AREA AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PERFORM ALL PATCHING BY WORKERS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED. INFERIOR WORK WILL NOT BE ACCEPTED.
JJ. PATCH ALL HOLES LEFT AS A RESULT OF DEMOLITION OF ELECTRICAL EQUIPMENT AND DEVICES.
KK. PREVENT THE SPREAD OF DUST, DEBRIS, AND OTHER MATERIAL INTO ADJACENT AREAS.
LL. REPLACE ALL CEILING TILES DAMAGED DURING INSTALLATION OF WORK, WITH NEW TILE.
MM. PROVIDE MINIMUM 4" HIGH CONCRETE PADS FOR ALL FLOOR MOUNTED EQUIPMENT.
NN. SIZE PAD TO PROVIDE A MINIMUM 2" OVERLAP AROUND PERIMETER OF EQUIPMENT.
OO. REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING AND/OR INSTALLATION TO ITS ORIGINAL CONDITION. REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURER'S RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.
TT. PAINT ALL NEW RACEWAY SYSTEMS IN EXPOSED FINISHED AREAS.
UU. AFTER TESTS HAVE BEEN MADE AND ACCEPTED, CLEAN LIGHT FIXTURES, PANELS AND OTHER EQUIPMENT INSTALLED BY THE CONTRACTOR, LEAVING THE ENTIRE WORK AREA IN A CLEAN AND COMPLETE WORKING ORDER.
VV. OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL INSPECTION AND OWNER INSTRUCTIONS. NOTIFY THE ENGINEER, IN WRITING, THAT ALL SYSTEMS HAVE BEEN TESTED AND ARE FUNCTIONING AND OPERATING PROPERLY
WW. INCLUDE DOCUMENTATION OF INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUALS.
WX. XX. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT OR MATERIALS UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE TENANT. KEEP ALL EQUIPMENT CLEAN MATERIALS UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE TENANT.

16025 - DEMOLITION

A. EXAMINE THE BUILDING TO DETERMINE ACTUAL CONDITIONS AND EXTENT OF WORK PRIOR TO BIDDING THE PROJECT. REFER ANY UNCLEAR DETAILS OR CONFLICTS TO THE ARCHITECT/ENGINEER FOR CLARIFICATION PRIOR TO BIDDING THE DRAWINGS.
B. VERIFY THAT FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN OF DRAWINGS.
C. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
D. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
E. COORDINATE PHASING OF THE DEMOLITION WORK WITH THE CONSTRUCTION SEQUENCE SCHEDULE.
F. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
G. COORDINATE UTILITY SERVICE OUTAGES WITH LANDLORD.
H. IDENTIFY EXISTING ELECTRICAL EQUIPMENT SUCH AS CONDUITS, BOXES, PULLBOXES, CONDUIT BODIES, AND CONDUIT RACKS THAT WILL NEED ADDITIONAL SUPPORT DUE TO THE DEMOLITION OF THE EXISTING SUPPORTS.
I. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS, INCLUDING TELEPHONE AND DATA SYSTEMS, IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
J. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY AND OBTAIN PERMISSION FROM TENANT, ARCHITECT/ENGINEER AT LEAST 24 HOURS BEFORE PARTIALLY OR DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
K. EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY AND OBTAIN PERMISSION FROM LANDLORD, ARCHITECT/ENGINEER AND LOCAL FIRE SERVICE AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. ESTABLISH A FIRE WATCH AS REQUIRED BY LOCAL FIRE SERVICE.
L. EXISTING TELEPHONE/DATA SYSTEM: MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEMS ARE COMPLETE AND READY FOR SERVICE AND ACCEPTED. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY AND OBTAIN PERMISSION FROM LANDLORD, ARCHITECT/ENGINEER AND TELEPHONE UTILITY COMPANY AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
M. REMOVE, SALVAGE AND EXTEND EXISTING ELECTRICAL WORK AS SHOWN ON THIS SECTION, AND AS INDICATED ON THE DRAWINGS. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
N. PROVIDE SUPPORTS FOR ALL EXISTING ELECTRICAL EQUIPMENT THAT WAS SUPPORTED PREVIOUSLY BY DEMOLISHED WALLS, FLOORS, CEILING OR OTHER STRUCTURES. PROVIDE NEW SUPPORTS FROM STRUCTURAL MEMBERS NOT SLATED FOR DEMOLITION, PRIOR TO ANY DEMOLITION.
O. TENANT RESERVES THE RIGHT OF FIRST REFUSAL TO OBTAIN MATERIAL SHOWN TO BE REMOVED UNDER THIS CONTRACT. ITEMS NOT RETAINED BY THE TENANT BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PREMISES.
P. DEMOLISH AND REMOVE ALL ELECTRICAL SYSTEMS INDICATED FOR DEMOLITION. NO PORTION OF THESE SYSTEMS MAY BE ABANDONED IN PLACE.
Q. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
R. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT IN PROGRAMMATIC. UNLESS SPECIFICALLY NOTED, REMOVE COLUMNS BACK TO A POINT WHERE PATCHING CAN BE ADEQUATELY PERFORMED AND PATCH SURFACES..
S. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS, WHICH ARE NOT REMOVED.
T. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.
U. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
V. DISCONNECT AND REMOVE ABANDONED LUMINARIES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
W. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
X. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS, WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
Y. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED. RELOCATE AND REROUTE CONDUIT AND WIRING AS REQUIRED FOR CONDUIT CONCEALED IN WALLS OR STRUCTURE BEING ALTERED AS PART OF THE REMODELING. MAINTAIN CONTINUITY TO ALL DEVICES IN AND DOWNSTREAM OF REMODELED WORK.
Z. REROUTE EXISTING RACEWAY AND WIRING, WHICH IS EXPOSED DUE TO REMOVAL OF EXISTING CONSTRUCTION, CONCEAL NEW RACEWAY AND WIRING AND MAINTAIN OPERATION.
AA. IF CONDUCTORS ARE REQUIRED TO BE REMOVED FROM EXISTING RACEWAYS, INSTALL WITH NEW CONDUCTORS.
BB. PROVIDE NEW COVERPLATES THROUGHOUT THE REMODELED AREAS.
CC. DISPOSE OF FLUORESCENT LAMPS, BALLASTS, AND OTHER HAZARDOUS MATERIALS IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
DD. PRIOR TO REINSTALLATION OF EQUIPMENT, THOROUGHLY INSPECT EACH ITEM AND REPORT ANY DEFECTS TO THE ENGINEER/ARCHITECT IN WRITING. INSTRUCTIONS FOR CORRECTIVE MEASURES WILL BE GIVEN AT THE TIME AND THE CONTRACT AMOUNT ADJUSTED ACCORDINGLY. IF NO DEFECTS ARE REPORTED, THE MATERIAL WILL BE INCLUDED UNDER THE CONTRACTOR'S ONE-YEAR GUARANTEE AS OUTLINED IN SECTION 16010.
EE. PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.
FF. LUMINARIES: REMOVE EXISTING LUMINARIES FOR CLEANING. USE MILD DETERGENT TO CLEAN ALL EXTERIOR AND INTERIOR SURFACES; RINSE WITH CLEAN WATER AND WIPE DRY. REPLACE LAMPS, BALLASTS, AND BROKEN ELECTRICAL PARTS.
GG. INSTALL RELOCATED MATERIALS AND EQUIPMENT AS INDICATED ON THE DRAWINGS.

16050 - BASIC MATERIALS AND METHODS

A. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL BRANCH CIRCUITS. DO NOT SHARE NEUTRAL CONDUCTORS.
B. ENCASE ALL CONDUCTORS IN A CONTINUOUS RACEWAY SYSTEM. PROVIDE PULL AND JUNCTION BOXES AS REQUIRED BY THE NEC IN ALL RACEWAY PER THE NEC WITH OVERSIZE CONDUITS AS INDICATED. PROVIDE MINIMUM 3/4" CONDUIT FOR BRANCH CIRCUIT HOMERUNS, PROVIDE MINIMUM 1/2" CONDUIT, UNLESS, NOTED OTHERWISE.
C. PROVIDE EMT FOR ALL CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE CONCRETE-TIGHT STEEL COMPRESSION OR STEEL SETSCREW TYPE FITTINGS, COUPLINGS AND BUSHINGS. CAST OR INDENTOR TYPE DEVICES ARE NOT ACCEPTABLE. ALL FITTINGS USED IN PLENUM APPLICATIONS SHALL BE RATED FOR SUCH USE.
D. PROVIDE IMC OR CONCRETE-ENCASED PVC CONDUIT FOR SERVICE ENTRANCE CONDUCTORS.
E. PVC CONDUIT MAY BE USED UNDERGROUND OR BELOW CONCRETE SLABS. PROVIDE COATED RIGID STEEL ELBOWS FOR ALL ELBOWS WHERE PVC IS USED.
F. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO TRANSFORMERS, MOTORS AND OTHER VIBRATING PIECES OF EQUIPMENT. PROVIDE LIQUID-TIGHT CONDUIT FOR ALL CONNECTIONS IN DAMP OR WET LOCATIONS. PROVIDE GROUND TYPE FITTINGS AND GROUNDING CONDUCTOR INSIDE ALL FLEXIBLE CONDUIT. ADJUST CONDUIT SIZE IF REQUIRED.
G. PROVIDE RECESSED OUTLET BOXES AND JUNCTION BOXES IN ALL NEW CONSTRUCTION. CONCEAL ALL CONDUIT WORK IN NEW CONSTRUCTION, EXCEPT MECHANICAL ROOMS. CONDUIT AND BOXES IN MECHANICAL ROOMS MAY BE RUN EXPOSED.
H. PROVIDE EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
I. RUN ALL EXPOSED CONDUIT IN A NEAT, WORKMANLIKE MANNER PARALLEL TO THE BUILDING LINES, TIGHT TO THE WALL AND CEILING SURFACES, AND FIRMLY SUPPORT WITH CONDUIT CLAMPS OR HANGERS. PROVIDE TWO (2) HOLE MOUNTING STRAPS, MINIMUM THREE (3) FEET ON CENTER, FOR ALL EXPOSED CONDUIT MOUNTED ON WALLS LESS THAN SIX (6) FEET ABOVE FINISHED FLOOR. PLACE CONDUITS AT LEAST 8" AWAY FROM ALL HOT PIPING AND SURFACES INCLUDING DOMESTIC HOT WATER LINES.
J. PROVIDE GALVANIZED CODE GAUGE STEEL JUNCTION AND PULL BOXES WITH SCREW ON COVERS OF TYPE, SHAPE AND SIZE REQUIRED TO SUIT EACH INSTALLATION. PROVIDE GASKETING IN DAMP AND DUSTY LOCATIONS. PROVIDE CAST BOXES IN WEATHERPROOF, VAPOR TIGHT AND EXPLOSION PROOF ENVIRONMENTS.
K. PROVIDE 4" BOXES THROUGHOUT. PROVIDE 3 1/2" DEEP BOXES WHERE INSTALLED IN MASONRY, 2 1/2" MINIMUM ELSEWHERE. PROVIDE SINGLE GANG MUD OR TILE RING FOR SINGLE DEVICES.

L. MOUNT OUTLETS BOXES IN EXPOSED MASONRY WALLS WITH THE BOTTOM OF THE BOX ON THE TOP OF THE MORTAR JOINT AND THE VERTICAL LINE OF THE BOX EITHER ON THE MORTAR JOINT OR ON THE CENTER LINE OF THE MASONRY UNIT. PLUMB AND ACCURATELY ALIGN ALL WALL OUTLETS IN ROWS. MOUNT CEILING BOXES SYMMETRICAL WITH WALLS, BEAMS AND/OR TILES. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE FROM THE CENTER OF THE OUTLET BOX TO THE FINISHED FLOOR DIRECTLY BELOW THE OUTLET. EXTERIOR HEIGHTS ARE FROM INSIDE ADJACENT DOOR, OR IF NO DOOR, FROM THE FIRST FLOOR ABOVE GRADE, UNLESS NOTED OTHERWISE.
M. COORDINATE THE LOCATION OF ALL OUTLETS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS BEFORE INSTALLATION. COORDINATE ALL DOOR SWINGS IN THE FIELD BEFORE LOCATING SWITCHES.
N. PROVIDE NEW WIRING DEVICES IN EACH OUTLET INDICATED ON THE DRAWINGS. PROVIDE ALL DEVICES FROM ONE MANUFACTURER. COLOR TO MATCH ADJACENT SURFACE.
O. APPROVED TOGGLE SWITCH MANUFACTURERS/MODEL NUMBERS:

	20A/120-277 WALL SWITCHES						
MFR.	1-POLE	1-POLE W/PILOT	2-POLE	3-WAY	4-WAY	KEYED 1 POLE	MOM. CONTACT
COOPER	2221	2221PL	2222	2223	2224	2221L	1995
HUBBELL	HBL1221	HBL1221PL	HBL1222	HBL1223	HBL1224	HBL1221L	HBL1557
P&S	PS20AC1	PS20AC1-RL	PS20AC2	PS20AC3	PS20AC4	PS20AC1-L	1251
LEVITON	1221-2	1221-2PL	1222-2	1223-2	1224-2	1221-2L	1257

P. APPROVED STANDARD RECEPTACLE MANUFACTURERS/MODEL NUMBERS:

	20A/125V STANDARD RECEPTACLES					
MFR.	SIMPLEX	DUPLEX	GFI	IG	TVSS	TAMPER RESISTANT
COOPER	5361	5362	XGF20	IG536-2	5362S	TR8300
HUBBELL	HBL536-1	HBL536-2	GFR5352-A	IG536-2	HBL5360SA	HBL8300SG A
P&S	5361	5362A OR PT5362-A	2094	IG630-0	8300SP	TR63H
LEVITON	5361	5362	8899	5362-IG	7380	8300-SG

*PROVIDE THE CORRESPONDING HOSPITAL GRADE DEVICE WHEN THIS DEVICE IS USED.

A. PROVIDE NEW COVERPLATES OVER ALL BOXES WITH THE FOLLOWING SPECIFICATIONS: ALL FINISHED AREAS AND UNFINISHED AREAS PROVIDE PLASTIC COVERS, COLOR TO MATCH ADJACENT SURFACE OR AS SELECTED BY THE ARCHITECT. PROVIDE APPROPRIATE COVERS OVER SPECIAL PURPOSE RECEPTACLES. PROVIDE WHITE WEATHERPROOF COVERPLATES FOR OUTLETS AND SWITCHES AS INDICATED ON THE DRAWINGS AND FOR ALL EXTERIOR DEVICES.
B. PROVIDE WIRE AND CABLE WITH INSULATION VOLTAGE RATING EQUAL TO OR GREATER THAN THE APPLIED SYSTEM VOLTAGE. PROVIDE SOLID OR STRANDED COPPER CONDUCTORS WITH TYPE THWN, THHN, OR XHHN INSULATION FOR NO. 12 AWG AND NO. 10 AWG CONDUCTORS. PROVIDE STRANDED COPPER CONDUCTORS WITH TYPE THWN, THHN, OR XHHW INSULATION FOR NO. 8 AWG AND LARGER CONDUCTORS. PROVIDE MINIMUM NO. 12 AWG CONDUCTOR SIZE, UNLESS NOTED OTHERWISE. USE THE MINIMUM CONDUCTOR SIZE WHEN NO SIZE IS INDICATED. ALL CONDUCTORS TO BE COLOR-CODED AS FOLLOWS;120/208 VOLT SYSTEMS-PHASE A(BLACK), PHASE B(RED), PHASE C(BLUE), NEUTRAL(WHITE). 277/480 VOLT SYSTEMS-PHASE A(BROWN), PHASE B(ORANGE), PHASE C(YELLOW), NEUTRAL(WHITE WITH TRACER OR GRAY). GROUNDING SYSTEM(GREEN).
C. PRIOR TO TURNING THE BUILDING OVER TO THE OWNER TURN ON ALL EQUIPMENT IN THE BUILDING INCLUDING LIGHTING AND WITH A MULTIMETER, READ THE CURRENT DRAWN ON EACH HOT LEG OF FEEDER SUPPLYING EACH DISTRIBUTION PANEL. IF THE CURRENT IN ANY ONE LEG VARIES MORE THAN 5% (PLUS OR MINUS) FROM THE ARITHMETIC AVERAGE OF THE CURRENT IN ALL THE HOT LEGS, RECONNECT THE BRANCH CIRCUITS TO OBTAIN A BALANCED LOADING.
D. PROVIDE FIRE BARRIERS AROUND CONDUIT, PIPE, TUBING, BUS DUCTS AND CABLES PASSING THROUGH SMOKE AND FIRE RATED FLOORS AND WALLS. PROVIDE CP 25, 303 AND PSS7904 SERIES BY 3M, OR "FLAME-SAFE" SYSTEM BY THOMAS AND BETTS CORP FOR FIRE SEALS.
E. MAKE CONNECTIONS TO ALL MOTORS AND EQUIPMENT FURNISHED AND SET IN PLACE BY OTHERS. PROVIDE STARTERS, MANUAL CONTROLS AND AUXILIARY EQUIPMENT WHERE INDICATED ON SCHEDULES AND SPECIFIED HEREIN. PROVIDE ALL DISCONNECT SWITCHES AS INDICATED IN SCHEDULES, SPECIFIED HEREIN AND REQUIRED BY CODE.

16400 - POWER DISTRIBUTION

A. RETAIL METERING CENTER.
   1. PROVIDE METER SECTIONS CONTAINING METER QUANTITIES AS INDICATED ON THE DRAWINGS.
   2. PROVIDE METER BRANCHES RATED 200 AMP MAXIMUM.
   3. PROVIDE 3 PHASE, 4 WIRE METERS FOR USE ON 120/208 VOLT AND 277/480 VOLT, 3 PHASE, 4 WIRE SYSTEMS WITH SEVEN (7) JAW METER SOCKETS. METERS FURNISHED BY THE UTILITY COMPANY.
   4. MOUNT ALL OF THE ABOVE COMPONENTS AS SHOWN ON THE DRAWINGS IN A UL APPROVED AND LABELED, NEMA CLASS 1 FLOOR MOUNTED STEEL ENCLOSURE. ENCLOSURE TO BE CONSTRUCTED TO FINISHED STEEL CLEANED, PRIMED, AND PAINTED WITH BAKED ENAMEL FINISH PRIOR TO SHIPMENT TO THE JOB SITE.
B. PROVIDE FUSES OF THE FOLLOWING TYPES (BUSSMAN USED AS REFERENCE):
   1. 600 AMPS AND ABOVE: TIME-DELAY TYPE DESIGNED TO HOLD 500% OF RATED CURRENT FOR A MINIMUM OF 4 SECONDS AND CLEAR 20 TIMES CURRENT IN 0.01 SECONDS OR LESS WITH INTERRU

ABBREVIATIONS

AC	AIR CONDITION (-ING, -ED)
AFF	ABOVE FINISHED FLOOR
AMP	AMPERE (AMP, AMPS)
AP	ACCESS PANEL
BTU	BRITISH THERMAL UNIT
CBV	CIRCUIT BALANCING VALVE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHW	CIRCULATING HOT WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CR	CONDENSATE RETURN
CW	COLD WATER
DB	DECIBEL
DEMO	DEMOLITION
DIA	DIAMETER
DIFF	DIFFUSER
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
ELEV	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
F	FAHRENHEIT
FSD	COMBINATION FIRE/SMOKE DAMPER
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FOOT OR FEET
GA	GAGE OR GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
HP	HORSEPOWER
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER
HZ	HERTZ
ID	INSIDE DIAMETER
INV	INVERT
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	THOUSAND BTU'S/HR
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
ORD	OVERFLOW ROOF DRAIN
PH	PHASE (ELECTRICAL)
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RD	ROOF DRAIN
REC	RECESSED
REL	RELIEF
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAN	SANITARY
SD	SMOKE DAMPER
SF	SQUARE FEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION
ST	STORM
STD	STANDARD
TD	TEMPERATURE DIFFERENCE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WATTS
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WT	WEIGHT

EQUIPMENT TAGS

ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
AHUP	AIR HANDLING UNIT PUMP
BP	BOOSTER PUMP
CDWP	CONDENSER WATER PUMP
CEF	CEILING EXHAUST FAN
CHWP	CHILLED WATER PUMP
CP	CIRCULATING PUMP
CPR	CONDENSATE PUMP AND RECEIVER
CRP	CONDENSATE RETURN PUMP
CUH	CABINET UNIT HEATER
DHC	DUCT HEATING COIL
ECH	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EHC	ELECTRIC HEATING COIL
ES	ELECTRONIC SENSOR
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FPB	FAN POWERED VARIABLE AIR VOLUME BOX
GWH	GAS WATER HEATER
HU	HUMIDIFIER
HUH	HORIZONTAL UNIT HEATER
HWP	HEATING WATER PUMP
IH	INTAKE HOOD
MAU	MAKE-UP AIR UNIT
PCWP	PRIMARY CHILLED WATER PUMP
PHWP	PRIMARY HEATING WATER PUMP
PRV	POWER ROOF VENTILATOR
REF	RELIEF EXHAUST FAN
RF	RETURN FAN
RH	RELIEF HOOD
RTU	ROOFTOP UNIT
SCWP	SECONDARY CHILLED WATER PUMP
SEP	SEWAGE EJECTOR PUMP
SHWP	SECONDARY HEATING WATER PUMP
SP	SUMP PUMP
TF	TRANSFER FAN
USF	UTILITY SET FAN
VAV	VARIABLE AIR VOLUME BOX
VUH	VERTICAL UNIT HEATER
WS	WATER SOFTENER

HVAC SYMBOL LEGEND

DUCTWORK — 12/12

SUPPLY DUCT UP — 12/12

SUPPLY DUCT DOWN — 12/12

SUPPLY DUCT UP THROUGH ROOF — 12/12

RETURN/RELIEF DUCT UP — 12/12

RETURN/RELIEF DUCT DOWN — 12/12

RETURN/RELIEF DUCT UP THROUGH ROOF — 12/12

EXHAUST DUCT UP — 12/12

EXHAUST DUCT DOWN — 12/12

EXHAUST DUCT UP THROUGH ROOF — 12/12

MANUAL VOLUME DAMPER — 12/12

MOTORIZED DAMPER — M — 12/12

REMOTELY ACCESSIBLE VOLUME DAMPER — 12/12

FIRE DAMPER W/ACCESS PANEL — FD — 12/12

FIRE/SMOKE DAMPER W/ACCESS PANEL — FSD — 12/12

SMOKE DAMPER W/ACCESS PANEL — SD — 12/12

DUCT RISE (OR DROP) — UP (OR DN)

EXISTING DUCTWORK TO REMAIN — 12/12

EXISTING DUCTWORK TO BE REMOVED

SUPPLY AIR TERMINAL

RETURN/EXHAUST/TRANSFER AIR TERMINAL

VAV BOX

ACCESS PANEL — A/P

THERMOSTAT — T

TEMPERATURE SENSOR — S

SMOKE DETECTOR — 2

CO2 SENSOR — C

LONG RADIUS ELBOW

SHORT RADIUS ELBOW WITH VANES

DIFFUSER TYPE | NECK SIZE
AIRFLOW | QUANTITY — "X"|XX"ø
XXX (X)

PLUMBING SYMBOL LEGEND

FLOOR DRAIN

FLOOR SINK W/HALF GRATE

FLOOR SINK W/FULL GRATE

BALL VALVE

GATE VALVE

CHECK VALVE

DRAIN VALVE

2-WAY VALVE

SOLENOID VALVE — S

MOTORIZED VALVE — M

EMERGENCY GAS SHUT-OFF VALVE

THERMOSTATIC/PRESSURE BALANCE MIXING VALVE

TRAP PRIMING VALVE — TP

PRESSURE RELIEF VALVE

BUTTERFLY VALVE

GLOBE VALVE

CIRCUIT BALANCING VALVE

PLUG VALVE

ANCHOR

PIPE FLANGE

PIPE GUIDE

AIR CHAMBER

WATER HAMMER ARRESTER

WALL HYDRANT/ HOSE BIBB

EXPANSION TANK

WATER METER — M

FLOW METER

THERMOMETER

PRESSURE GAGE

STRAINER

PUMP

PLUMBING FIXTURE TAG — P#

FLOOR RECEPTOR TAG — F#

FLOW SWITCH — FS

3-WAY VALVE

BACKFLOW PREVENTER — BFP

REDUCER

FLOW ARROW

STEAM TRAP (F&T)

THERMOSTAT WELL

EXPANSION JOINT

FLEXIBLE CONNECTOR

TEST PLUG

STEAM TRAP (THERMOSTATIC)

VACUUM RELIEF VALVE

AQUASTAT

PRESSURE REGULATOR

PIPE DOWN

PIPE UP

TEE DOWN

UNION

PIPE CAP

PIPE BREAK

PLUMBING LINETYPE LEGEND

	DOMESTIC COLD WATER
	DOMESTIC COLD WATER (BELOW FLOOR/GRADE)
	DOMESTIC COLD WATER (EXISTING)
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER (EXISTING)
G	GAS
G	GAS (ON ROOF)
G	GAS (EXISTING)
G	GAS (EXISTING ON ROOF)
	SANITARY SEWER (ABOVE FLOOR/GRADE)
	SANITARY SEWER (BELOW FLOOR/GRADE)
	SANITARY SEWER (EXISTING)
	VENT
	VENT (UNDERFLOOR/GRADE)
	VENT (EXISTING)

HVAC PIPING LINETYPE LEGEND

CHWR	CHILLED WATER RETURN
CHWR	CHILLED WATER RETURN (EXISTING)
CHWS	CHILLED WATER SUPPLY
CHWS	CHILLED WATER SUPPLY (EXISTING)
CD	CONDENSATE DRAIN
CD	CONDENSATE DRAIN (EXISTING)
HWR	HOT WATER RETURN
HWR	HOT WATER RETURN (EXISTING)
HWRR	HOT WATER REVERSE RETURN
HWRR	HOT WATER REVERSE RETURN (EXISTING)
HWS	HOT WATER SUPPLY
HWS	HOT WATER SUPPLY (EXISTING)
RL	REFRIGERANT LIQUID
RL	REFRIGERANT LIQUID (EXISTING)
RS	REFRIGERANT SUCTION
RS	REFRIGERANT SUCTION (EXISTING)

MISC. SYMBOL LEGEND

XXX / 1 — EQUIPMENT TAG

A — REVISION TRIANGLE

CONNECTION TO EXISTING

X — KEY NOTE

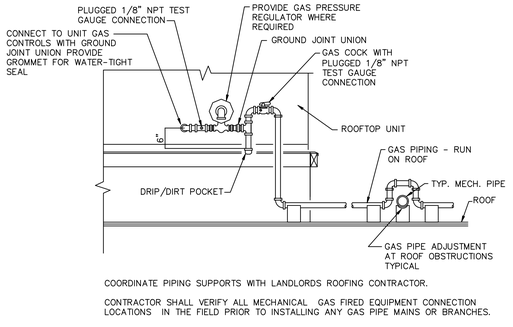
SPRINKLER HEAD (SEMI-RECESSED)

SPRINKLER HEAD (UPRIGHT)

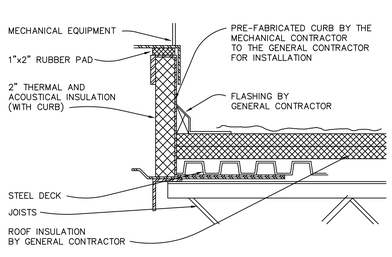
SPRINKLER HEAD (FULLY RECESSED)

SHEET INDEX

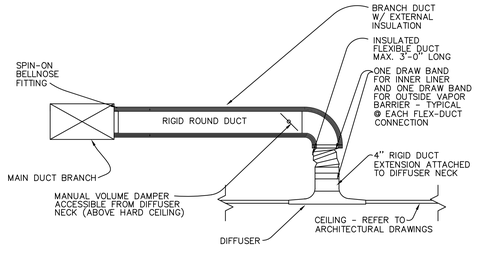
M0.0	MECHANICAL TITLE SHEET AND DETAILS
M1.0	HVAC PLAN
M2.0	MECHANICAL SPECIFICATIONS
P1.0	PLUMBING PLANS AND RISER DIAGRAM



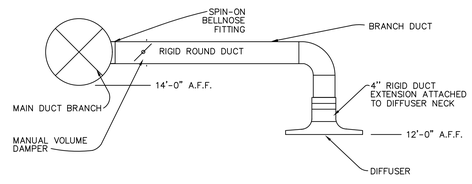
4 ROOF TOP UNIT GAS PIPING DETAIL
NO SCALE



3 MECHANICAL EQUIPMENT CURB DETAIL
NO SCALE



2 TYP. DIFFUSER/DUCT CONNECTIONS
NO SCALE — SURFACE MOUNT DIFFUSER



1 TYP. DIFFUSER/DUCT CONNECTIONS
NO SCALE — DUCT MOUNT DIFFUSER

#1519

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 20086 — LUKE A. KUSIK — 12/05/2025

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PROJECT STATUS

NO.	DATE	DESCRIPTION
REVISION DATES		
	12/05/2025	
ORIGINAL ISSUE DATE		

HEI PROJECT NO.:	R25-5119.031
DRAWN BY:	TMS
CHECKED BY:	LAK

MECHANICAL TITLE SHEET AND DETAILS

M0.0

GENERAL NOTES

A. ALL REFERENCES ON THE DRAWINGS AND IN THE SPECIFICATIONS TO "CONTRACTOR" AND "MECHANICAL CONTRACTOR" REFER TO THE TENANT'S CONTRACTOR, UNLESS NOTED OTHERWISE.

B. ALL WORK SHOWN AND SPECIFIED HEREIN SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE.

C. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR ALL DIVISIONS OF WORK AND SHALL COORDINATE WORK WITH ALL OTHER TRADES. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.

D. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL FIT THE WORK TO THE JOB, CAREFULLY INVESTIGATING STRUCTURAL, MECHANICAL, ELECTRICAL AND FINISH CONDITIONS AFFECTING THE WORK, AND SHALL FURNISH AND INSTALL ALL NECESSARY BENDS, OFFSETS, FITTINGS, JUNCTIONS, ETC. WHETHER OR NOT SPECIFICALLY SHOWN OR CALLED FOR, AND SEE THAT THERE ARE NO INTERFERENCES BETWEEN THIS WORK AND THE WORK OF OTHER TRADES.

E. PROVIDE ALL EQUIPMENT AND MATERIALS, AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY APPLICABLE CODES.

F. INSTALL ALL MECHANICAL EQUIPMENT, MATERIALS AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS, THE CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

G. ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LANDLORD CRITERIA.

H. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS THAT ARE NOT DIMENSIONED ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS SHALL BE BASED ON SITE CONDITIONS. INSTALL ALL EQUIPMENT AS REQUIRED TO MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.

I. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING, AND OTHER CEILING-MOUNTED ITEMS, AND MAKE MINOR ADJUSTMENTS IN DIFFUSER LOCATIONS AND DUCTWORK AS REQUIRED.

J. ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE MECHANICAL SYSTEMS SHALL BE BY A LANDLORD-APPROVED ROOFING CONTRACTOR AT THIS CONTRACTOR'S EXPENSE. COORDINATE ROOF PENETRATIONS WITH LANDLORD AND GENERAL CONTRACTOR.

K. VERIFY ALL EXISTING CONDITIONS IN FIELD, INCLUDING ALL EXISTING DUCTWORK, PIPING, STUB-INS, TAPS, ETC.

L. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO LANDLORD'S BASE BUILDING SYSTEMS. RE-USE EXISTING CONNECTION POINTS WHERE POSSIBLE. COORDINATE ALL REQUIREMENTS IN FIELD WITH LANDLORD.

M. NOTIFY TENANT'S PROJECT MANAGER IF ANY EXISTING DUCTWORK OR PIPING CONNECTION POINTS ARE SMALLER THAN SIZES SHOWN ON DRAWINGS.

N. CONTRACTOR SHALL CLEAN AND SERVICE ALL EXISTING MECHANICAL EQUIPMENT THAT IS BEING RE-USED. REPAIR OR REPLACE UNIT COMPONENTS AS REQUIRED TO MAKE UNIT FULLY FUNCTIONAL, INCLUDING BUT NOT LIMITED TO: FANS, MOTORS, DRIVES, BELTS, BEARINGS, COILS, HEAT EXCHANGERS, REFRIGERATION, DAMPERS, DAMPER MOTORS, VALVES, AND OPERATING AND SAFETY CONTROLS. CHANGE FILTERS UPON COMPLETION OF SERVICE WORK AND JUST PRIOR TO JOB TURNOVER.

O. EXISTING DUCTWORK MAY BE RE-USED WHERE EXISTING DUCT SIZES AND CONDITIONS MEET OR EXCEED THOSE SHOWN AND SPECIFIED. DUCT SIZES SHOWN ON DRAWINGS ARE MINIMUM REQUIRED SIZES. CLEAN ALL RE-USED DUCTWORK THOROUGHLY PRIOR TO CONNECTION TO NEW. INSULATE EXISTING DUCTWORK BEING RE-USED AS REQUIRED TO MEET SPECIFICATIONS FOR NEW DUCTWORK. DO NOT RE-USE LINED DUCTWORK.

P. REMOVE ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING SYSTEMS, CONTROLS, ETC. NOT BEING RE-USED. DO NOT ABANDON IN PLACE.

Q. CONTRACTOR MAY, AT HIS OPTION, INSTALL ROUND SPIRAL DUCTWORK OF EQUIVALENT CAPACITY IN LIEU OF RECTANGULAR DUCTWORK SHOWN AS LONG AS CEILING HEIGHTS ARE NOT AFFECTED.

R. NO FIBERGLASS DUCTBOARD WILL BE ALLOWED.

S. BRANCH DUCT RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK, UNLESS SHOWN OTHERWISE.

T. HARD PIPING SHALL BE UTILIZED FOR ALL RUNOUTS TO DIFFUSERS IN OPEN CEILING AREAS.

U. ADJUST DISCHARGE PATTERN OF ADJUSTABLE-THROW DIFFUSERS TO FULL VERTICAL POSITION.

V. CONTRACTOR SHALL BALANCE ALL HVAC SYSTEMS IN ACCORDANCE WITH THE MECHANICAL SPECIFICATIONS. SUBMIT COPIES OF TEST & BALANCE REPORT TO TENANT, LANDLORD AND ENGINEER.

ROOFTOP UNIT SCHEDULE (RTU # — 4/M0.0, 3/M0.0)

UNIT TAG	RTU-1	RTU-2	
AREA SERVED	SALES/STOCK	SALES	
MANUFACTURER	CARRIER	CARRIER	
MODEL NUMBER	48FE-EM14A2A6	48FE-EA06A2A6	
TYPE	PACKAGE	PACKAGE	
NOMINAL CAPACITY (TON)	12.5	5.0	
EER/IEER (SEER2)	10.8/15.0	(13.4)	
MIN OUTSIDE AIR CFM	735	365	
SUPPLY FAN			
CFM	4000	1800	
ESP	0.75	0.75	
RPM	1706	2086	
BHP	2.48	0.93	
TYPE	BELT	BELT	
CLASS (I, II, III, IV)	I	I	
FILTERS			
TYPE	THROWAWAY	THROWAWAY	
DEPTH	2"	2"	
EFFICIENCY %	35%	35%	
MEAN APD	0.14"	0.14"	
GAS HEAT EXCHANGER			
CFM	4000	1800	
EAT/LAT	58.2/102.1	57.0/104.4	
INPUT/OUTPUT MBH	224/181	110/88	
CONTROL STEPS	2	2	
DX COOLING COIL			
CFM	4000	1800	
EAT DB/WB	79.5/66.2	79.9/66.5	
LAT DB/WB	56.9/54.8	56.9/55.6	
COND. EAT	95.0	95.0	
SENSIBLE/TOTAL MBH	93.3/138.8	42.6/59.6	
REFRIGERANT TYPE	R-454B	R-454B	
COMPRESSOR			
TYPE	SCROLL	SCROLL	
QUANTITY	2	1	
UNLOADING %	0-50-100%	0-50-100%	
ECONOMIZER	0-50-100%	0-50-100%	
ELECTRICAL			
MCA	33.0	13.0	
V-PH-CY	460/3/60	460/3/60	
STARTER	DIV. 15	DIV. 15	
DISCONNECT	DIV. 15	DIV. 15	
OPERATING WEIGHT (LBS)	1319	780	
	PROVIDE UNIT WITH DIFF. ENTHALPY ECONOMIZER, POWER EXHAUST, CONDENSER COIL HAIL GUARDS, FDD CONTROLS, MANUFACTURER'S DISCONNECT, UNPOWERED CONVENIENCE OUTLET, RA SMOKE DETECTOR & 14" FACTORY CURB	PROVIDE UNIT WITH DIFF. ENTHALPY ECONOMIZER, BAROMETRIC RELIEF, CONDENSER COIL HAIL GUARDS, FDD CONTROLS, MANUFACTURER'S DISCONNECT, UNPOWERED CONVENIENCE OUTLET, RA SMOKE DETECTOR & 14" FACTORY CURB	

GRILLE AND DIFFUSER SCHEDULE (1/M0.0, 2/M0.0)

TYPE	A	B	C	
ITEM	TRANSFER/RETURN	SUPPLY	SUPPLY	
DESCRIPTION	SURFACE MOUNT	SURFACE MOUNT	DUCT MOUNT	
MANUFACTURER	TITUS	TITUS	TITUS	
MODEL NUMBER	355RL	OMNI	TMRA	
REMARKS	PAINTABLE FINISH ALIGN W/C/L OF LIGHT FIXTURES WHERE POSSIBLE	12"x12" STD. WHITE FINISH WITH OPPOSED BLADE DAMPER AND TRM "LAY-IN" FRAME	BLACK FINISH WITH OPPOSED BLADE DAMPER	

HVAC CONTROLS (RTU-1 & RTU-2)

ROOFTOP UNIT, DX COOLING WITH GAS HEAT:

THERMOSTAT
HONEYWELL VISIONPRO 8000, OR APPROVED EQUAL, 7-DAY PROGRAMMABLE MULTI-STAGE HEATING/COOLING AUTOMATIC CHANGEOVER THERMOSTAT TO CONTROL THE OPERATION OF EACH UNIT. PROVIDE REMOTE SPACE TEMPERATURE SENSOR.

SEQUENCE OF OPERATION
COOLING CYCLE - OCCUPIED HOURS:
UPON A RISE IN SPACE TEMPERATURE ABOVE THE OCCUPIED COOLING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AND THE OUTDOOR AIR DAMPER SHALL BE OPEN TO THE MINIMUM POSITION.

HEATING CYCLE - OCCUPIED HOURS:
UPON A DROP IN SPACE TEMPERATURE BELOW THE OCCUPIED HEATING SETPOINT OF THE THERMOSTAT, THE GAS BURNER SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AND THE OUTDOOR AIR DAMPER SHALL BE OPEN TO THE MINIMUM POSITION.

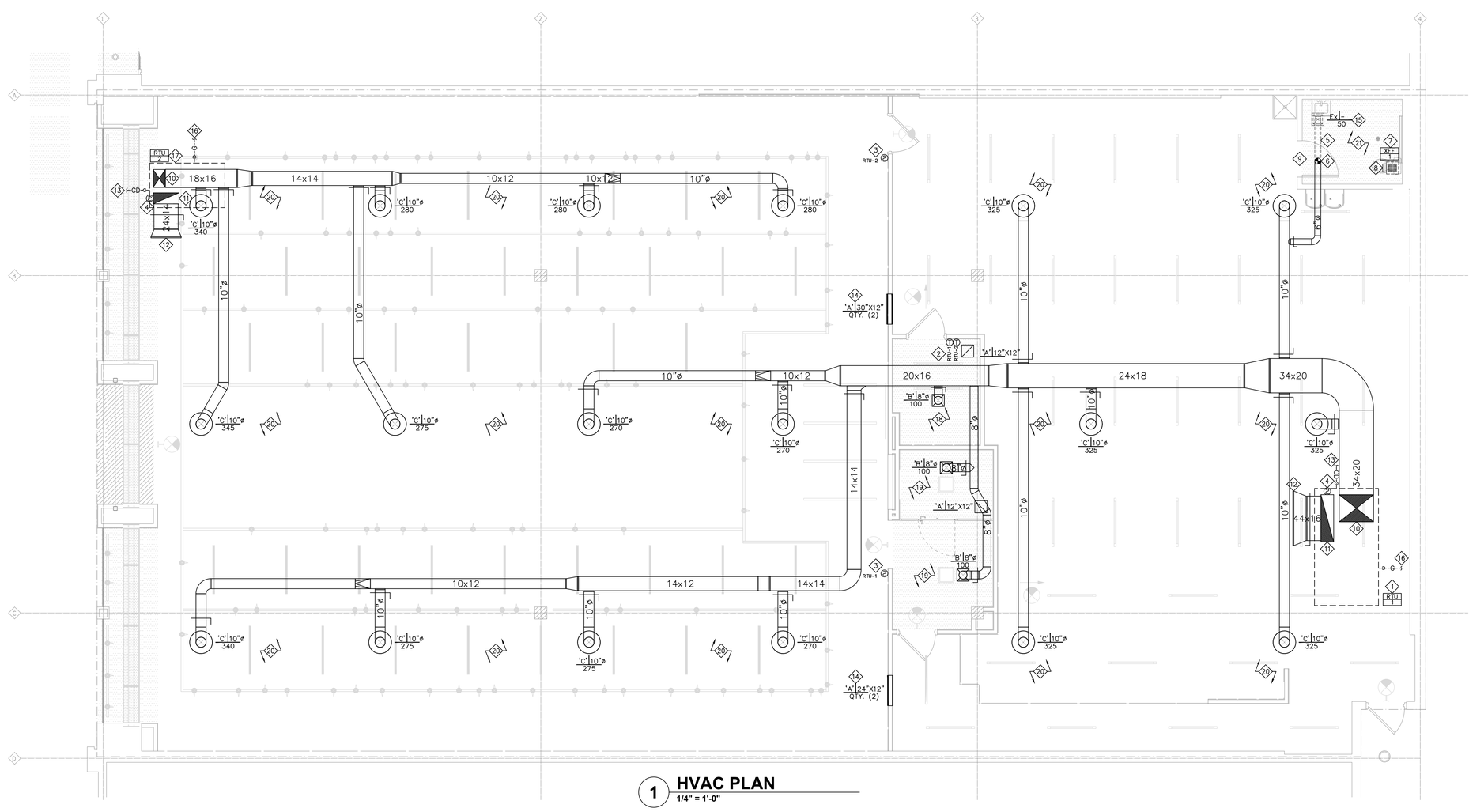
COOLING CYCLE - UNOCCUPIED HOURS:
UPON A RISE IN SPACE TEMPERATURE ABOVE THE UNOCCUPIED COOLING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL CYCLE AS REQUIRED AND THE OUTDOOR AIR DAMPER SHALL BE CLOSED.

HEATING CYCLE - UNOCCUPIED HOURS:
UPON A DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT OF THE THERMOSTAT, THE GAS BURNER SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL CYCLE AS REQUIRED AND THE OUTDOOR AIR DAMPER SHALL BE CLOSED.

ECONOMIZER CYCLE:
WHEN, UPON A CALL FOR COOLING, THE OUTDOOR AIR ENTHALPY IS BELOW THE RETURN AIR ENTHALPY, THE REFRIGERATION SYSTEM OPERATION SHALL BE CONTROLLED BY THE ECONOMIZER. THE ECONOMIZER SHALL MODULATE THE OUTDOOR AIR AND RETURN AIR DAMPERS IN ORDER TO INTRODUCE UP TO 100% OUTDOOR AIR TO SATISFY THE COOLING LOAD IN THE SPACE. IF THE COOLING EFFECT OF THE OUTDOOR AIR IS NOT SUFFICIENT TO COOL THE SPACE, THE REFRIGERATION SYSTEM SHALL CYCLE AS REQUIRED TO SUPPLEMENT THE ECONOMIZER.

KEY NOTES (X)

1. REPLACE EXISTING ROOFTOP HVAC UNIT (TRANE VOYAGER) WITH NEW ROOFTOP UNIT. VERIFY LOCATION OF EXISTING UNIT. UTILIZE EXISTING ROOF PENETRATION AND PROVIDE CURB ADAPTER IF POSSIBLE. IF CURB ADAPTER CANNOT BE USED, PROVIDE NEW FACTORY ROOF CURB. USE LANDLORD-APPROVED ROOFING CONTRACTOR FOR ALL ROOFING WORK ASSOCIATED WITH INSTALLATION OF NEW UNIT.
2. THERMOSTAT FOR UNIT INDICATED. INSTALL AT 4'-0" AFF. LABEL THERMOSTAT WITH UNIT NUMBER.
3. PROVIDE TEMPERATURE SENSOR FOR UNIT INDICATED. INSTALL AT 4'-0" AFF. LABEL SENSOR WITH UNIT NUMBER.
4. NEW RETURN AIR DUCT-MOUNTED SMOKE DETECTOR BY EQUIPMENT MANUFACTURER. INSTALL RETURN AIR DUCT SMOKE DETECTOR IN RETURN MAIN DUCT. DETECTOR SHALL SHUT DOWN HVAC UNIT UPON DETECTION OF SMOKE.
5. EXISTING SHEET METAL SUPPLY DUCTWORK TO REMAIN. DEMO ALL UNUSED DUCTWORK BACK TO MAINS. CAP ANY UNUSED OPENINGS. CLEAN EXISTING DUCTWORK AND REPLACE ANY REMOVED DUCTBOARD WITH SHEETMETAL DUCTWORK AS NEEDED. SEE SPECIFICATION 15895 FOR CLEANING HVAC SYSTEM.
6. CONNECT NEW SUPPLY DUCTWORK TO EXISTING SUPPLY DUCTWORK.
7. EXISTING TOILET EXHAUST FAN TO REMAIN, ENSURE FUNCTIONALITY, CLEAN AND REPAIR TO LIKE NEW CONDITION.
8. EXISTING TOILET EXHAUST DUCTWORK UP THRU ROOF TO REMAIN. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.
9. 1" UNDERCUT DOOR TO ALLOW FOR TRANSFER AIR.
10. PROVIDE FULL SIZE DUCT UP TO RTU SUPPLY DUCT CONNECTION.
11. PROVIDE FULL SIZE DUCT UP TO RTU RETURN DUCT CONNECTION.
12. PROVIDE BELL MOUTH RETURN AIR INLET WITH VOLUME DAMPER. COVER AIR INLET WITH 1"X 1" WMM.
13. EXTEND 1" CONDENSATE PIPING WITH 4" DEEP TRAP TO CLOSEST ROOF DRAIN.
14. INSTALL AIR TRANSFER GRILLES AS HIGH AS POSSIBLE (ABOVE PAINT LINE OR CEILING) ON BOTH SIDES OF WALL. PROVIDE TRANSFER DUCTWORK BETWEEN GRILLES. CONTRACTOR TO FIELD-LOCATE HORIZONTAL POSITION OF GRILLES IN EACH PARTITION PER JOBSITE CONDITIONS - NOTIFY ARCHITECT OF ANY CONFLICTS.
15. EXISTING SUPPLY DIFFUSER TO REMAIN. REBALANCE TO AIRFLOW SHOWN. CLEAN AND REPAIR TO LIKE-NEW CONDITION.
16. EXTEND GAS PIPING AND CONNECT TO EXISTING GAS PIPING ON ROOF. COORDINATE POINT OF CONNECTION TO EXISTING PIPING WITH LANDLORD. VERIFY METER CAPACITY IS SUFFICIENT FOR CONNECTED LOAD. COORDINATE METERING REQUIREMENTS WITH UTILITY CO. AND ARRANGE FOR NEW METER IF REQUIRED.
17. REPLACE EXISTING ROOFTOP HVAC UNIT (CARRIER) WITH NEW ROOFTOP UNIT. VERIFY LOCATION OF EXISTING UNIT. UTILIZE EXISTING ROOF PENETRATION AND PROVIDE CURB ADAPTER IF POSSIBLE. IF CURB ADAPTER CANNOT BE USED, PROVIDE NEW FACTORY ROOF CURB. USE LANDLORD-APPROVED ROOFING CONTRACTOR FOR ALL ROOFING WORK ASSOCIATED WITH INSTALLATION OF NEW UNIT.
18. PROVIDE SEMI-RECESSED SPRINKLER HEAD TYPE IN THIS AREA.
19. PROVIDE CONCEALED SPRINKLER HEAD TYPE IN THIS AREA. (BLACK IN THE STORE FRONT AND WHITE IN THE FITTING ROOMS)
20. MODIFY FIRE PROTECTION SYSTEM AS REQUIRED TO MAINTAIN COVERAGE DUE TO NEW SPACE AND CEILING LAYOUT. THIS IS AN OPEN CEILING DESIGN WHERE THE PREVEOUS CEILING WAS LAY-IN. (ALL SPRINKLER HEADS IN OPEN CEILING SHALL BE UP RIGHT HEADS)
21. EXISTING SPRINKLER SYSTEM IN AREA TO REMAIN. CLEAN AND REPAIR TO LIKE NEW CONDITION.



1 **HVAC PLAN**
1/4" = 1'-0"

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12/05/2025

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PROJECT STATUS

NO.	DATE	DESCRIPTION
REVISION DATES		
	12/05/2025	
ORIGINAL ISSUE DATE		

HEI PROJECT NO.:	R25-5119.031
DRAWN BY:	TMS
CHECKED BY:	LAK

HVAC PLAN

M1.0

15010 GENERAL PROVISIONS

A. FURNISHING LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED AS SHOWN ON THE DRAWINGS AND SPECIFIED IN DIVISION 15.
B. ALL WORK SHALL BE COMPLETE AND SHALL BE LEFT IN OPERATING CONDITION.
C. INCLUDE ALL PARTS AND LABOR WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.
D. ARRANGE WITH APPROPRIATE UTILITY COMPANIES TO PROVIDE TEMPORARY AND PERMANENT UTILITY SERVICES AS REQUIRED AND COORDINATE THEIR INSTALLATION WITH CONSTRUCTION PROGRESS OF THIS PROJECT. PAY ALL FEES AND COSTS CHARGED BY UTILITY COMPANIES FOR UTILITY SERVICES.
E. OBTAIN ALL TEMPORARY AND PERMANENT PERMITS AND LICENSES REQUIRED IN CONNECTION WITH THIS DIVISION'S WORK. PAY ALL FEES AND EXPENSES REQUIRED FOR SUCH PERMITS AND LICENSES.
F. REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING AGENCIES OF INSTALLATIONS OF PLANS SPECIFICATIONS.
G. PROVIDE THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION AND APPROVAL BY ENFORCEMENT AUTHORITIES.
H. MEET OR EXCEED ALL CURRENT APPLICABLE CODES, ORDINANCES AND REGULATIONS FOR ALL INSTALLATIONS. PROMPTLY NOTIFY THE ENGINEER, IN WRITING, IF THE CONTRACT DOCUMENTS APPEAR TO CONFLICT WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COSTS FOR CORRECTING NON-COMPLYING WORK INSTALLED WITHOUT NOTIFYING THE ENGINEER.
I. HIGHER QUALITY OF WORKMANSHIP AND MATERIALS INDICATED IN THE CONTRACT DOCUMENTS TAKES PRECEDENCE OVER THAT ALLOWED IN REFERENCED CODES AND STANDARDS.
J. FURNISH: TO OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOB SITE IN NEW CONDITION READY FOR INSTALLATION, UNLOAD AND UNPACK, AND GUARANTEE.
K. INSTALL: TO RECEIVE AT THE JOB SITE, STORE, ASSEMBLE, ERECT, SET IN PLACE, ANCHOR, APPLY, FINISH, PROTECT, CLEAN, TEST, START-UP, AND MAKE READY FOR OWNER'S USE.
L. PROVIDE: TO FURNISH AND INSTALL.
M. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONAL DIFFERENCES, WEIGHTS, ELECTRICAL REQUIREMENTS AND ANY OTHER RESULTING CHANGES, WHEN USING EQUIPMENT OTHER THAN THAT SCHEDULED ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL COSTS INCURRED AS A RESULT OF SUBSTITUTIONS.
N. BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EXAMINE THE SITE OF THE PROPOSED WORK AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND LIMITATIONS. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED NOR BIDDERS LACK OF KNOWLEDGE OF EXISTING CONDITIONS WHICH COULD HAVE BEEN DISCOVERED OR REASONABLY ANTICIPATED PRIOR TO BIDDING.
O. MECHANICAL EQUIPMENT AND SYSTEMS SHOWN ON THE DRAWINGS AS EXISTING, HAVE BEEN BASED ON EXISTING PLANS, AND MAY NOT BE INSTALLED AS ORIGINALLY SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTENCE, LOCATION AND CONDITION OF SUCH FACILITIES PRIOR TO SUBMITTING A BID.
P. CONSULT THE DRAWINGS AND SPECIFICATIONS OF DIVISION 16 AND OTHER TRADES FOR CORRELATING INFORMATION AND LAY OUT WORK SO THAT IT WILL COORDINATE WITH OTHER TRADES. VERIFY DIMENSIONS AND CONDITIONS (I.E., FINISHED CEILING HEIGHTS, FOOTING AND FOUNDATION ELEVATIONS, BEAM DEPTHS, ETC.) WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
Q. DRAWINGS MAY NOT SHOW EVERY RISE AND OFFSET REQUIRED FOR THE WORK. INSTALL PIPING AND DUCTWORK TO ACCOMMODATE THE BUILDING STRUCTURE AND THE WORK OF OTHER TRADES, WITH ALL REQUIRED OFFSETS AND WITHOUT EXTRA COST TO THE OWNER.
R. OBTAIN EXACT LOCATION OF CONNECTION TO EQUIPMENT, FURNISHED BY OTHERS, FROM THE PERSON FURNISHING THE EQUIPMENT.
S. GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF THE WORK AS EVIDENCED BY ISSUANCE OF THE FINAL CERTIFICATE BY THE ARCHITECT.
T. DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE AND TO THE ENTIRE SATISFACTION OF THE OWNER AND ARCHITECT AND ENGINEER. INCLUDE DAMAGE TO THE FINISH OR THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS.
U. MAGNETIC STARTERS, DISCONNECTS, AND POWER WIRING PROVIDED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED.
V. CONTROL AND INTERLOCK WIRING PROVIDED BY THE MECHANICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED.
W. PROVIDE ONLY PRODUCTS FROM MANUFACTURER'S WITH LOCAL REPRESENTATION THAT CAN PROVIDE COMPLETE COVERAGE, PARTS AND LABOR, FOR REPLACEMENT AND SERVICE OF THEIR PRODUCTS. PROVIDE ONLY EQUIPMENT THAT WILL FIT IN THE SPACE AVAILABLE AND BE COMPLETELY SERVICEABLE. BRING ANY CONFLICTS TO THE ENGINEER'S ATTENTION PRIOR TO ORDERING THE EQUIPMENT.
X. COORDINATE/SCHEDULE ALL WORK WITH THE OWNER TO MINIMIZE ANY DISRUPTIONS. CONFINE ALL INTERRUPTIONS TO THE SMALLEST POSSIBLE AREA. PROVIDE TEMPORARY SERVICES AS REQUIRED TO PROVIDE CONTINUITY OF SERVICE.
Y. INSPECT ALL AREAS AFFECTED BY THE INTERRUPTIONS AND RETURN ALL AUTOMATICALLY CONTROLLED EQUIPMENT, ELECTRICALLY OPERATED EQUIPMENT TO THE SAME OPERATING CONDITION PRIOR TO THE INTERRUPTION.
Z. NO FIRE SPRINKLER OR FIRE ALARM SYSTEMS ARE TO REMAIN INACTIVE AT THE END OF THE WORK DAY. ASSURE THAT THE FIRE SPRINKLER OR FIRE ALARM SYSTEM IS OPERATIONAL AT THE END OF EACH WORK DAY. COORDINATE WITH THE OWNER.
AA. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.
AB. PROVIDE THE HIGHEST QUALITY WORKMANSHIP AND PERFORM ALL WORK ONLY BY SKILLED MECHANICS. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, INSTRUCTIONS AND CURRENT STANDARDS.
AC. THE ENGINEER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, BEFORE OR AFTER INSTALLATION.
AD. ALL PIPING AND DUCTWORK SHALL BE RUN IN THE MOST DIRECT AND STRAIGHT MANNER POSSIBLE MAINTAINING PROPER GRADING.
AE. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT MOST PIPING AND DUCTWORK BE CONCEALED. WHERE EXPOSED, RUN AS CLOSE TO CEILING AND/OR WALL AS POSSIBLE PARALLEL WITH ADJACENT STRUCTURAL OR ARCHITECTURAL ELEMENTS.
AF. DO NOT INSTALL PIPING OR DUCTWORK IN ANY SWITCHGEAR, TRANSFORMER, ELEVATOR EQUIPMENT, TELEPHONE, OR ELECTRICAL EQUIPMENT ROOM, UNLESS IT IS A BRANCH SERVING THAT ROOM.
AG. DO NOT INSTALL PIPING OR DUCTWORK ABOVE SWITCHBOARDS, PANELBOARDS, CONTROL PANELS, MOTOR CONTROL CENTERS, ETC.
AH. ARRANGE WORK TO FACILITATE MAINTENANCE, REPAIR OR REPLACEMENT OF EQUIPMENT. PROVIDE ACCESS FOR DEVICES THAT REQUIRE MAINTENANCE. FOR CONCEALED DEVICES, VERIFY THAT ACCESS PANELS ARE PROPERLY LOCATED AND LABELED.
AI. INSTALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
AJ. PERFORM ALL CUTTING AND PATCHING NECESSARY TO WORK, UNLESS SPECIFICALLY DELEGATED TO THE GENERAL CONTRACTOR. OBTAIN SPECIAL PERMISSION FROM THE STRUCTURAL ENGINEER BEFORE CUTTING STRUCTURAL MEMBERS OR FINISHED MATERIAL. PERFORM ALL PATCHING IN SUCH A MANNER AS TO LEAVE NO VISIBLE TRACE AND RETURN THE AREA AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PERFORM ALL PATCHING BY WORKERS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED. INFERIOR WORK WILL NOT BE ACCEPTED.
AK. PATCH ALL HOLES LEFT AS A RESULT OF DEMOLITION OF MECHANICAL EQUIPMENT AND DEVICES.
AL. DRILL ALL HOLES IN MASONRY WITH ROTARY DRILL. IMPACT TOOLS ARE NOT ALLOWED. CORE DRILL ALL HOLES IN MASONRY AND CONCRETE FOR MECHANICAL PENETRATIONS. PROVIDE AND DISPOSE OF ALL WATER REQUIRED FOR CORE DRILLING. COORDINATE WITH OTHER TRADES TO PREVENT DAMAGE FROM WATER.
AM. PREVENT THE SPREAD OF DUST, DEBRIS, AND OTHER MATERIAL INTO ADJACENT AREAS.
AN. REPLACE ALL CEILING TILES DAMAGED DURING INSTALLATION OF WORK, WITH NEW TILE.
AO. REFINISH ALL MECHANICAL EQUIPMENT DAMAGED DURING SHIPPING AND/OR INSTALLATION TO ITS ORIGINAL CONDITION. REMOVE ALL RUST; PRIME, AND PAINT PER MANUFACTURER'S RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.
AP. DO NOT USE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS PROVIDED IN THIS SCOPE OF WORK FOR TEMPORARY HEATING, VENTILATING AND AIR CONDITIONING DURING CONSTRUCTION.
AQ. PROTECT OPENINGS AND EQUIPMENT FROM OBSTRUCTION, BREAKAGE, MISUSE, DAMAGE OR BLEMISHES. PROTECT MATERIALS AND EQUIPMENT IMMEDIATELY UPON RECEIPT AT THE JOB SITE OR IMMEDIATELY AFTER THEY HAVE BEEN REMOVED FROM THEIR SHIPPING CONTAINERS. UNLESS NOTED OTHERWISE, KEEP THEM CLEAN AND UNDAMAGED UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER. WHEN A PORTION OF THE BUILDING IS OCCUPIED BY THE OWNER BEFORE SUBSTANTIAL COMPLETION OF THE ENTIRE PROJECT, MAKE ARRANGEMENTS TO TRANSFER RESPONSIBILITY FOR PROTECTION AND HOUSEKEEPING FOR THE OCCUPIED PORTION.
AR. PROTECT PIPE, DUCT AND EQUIPMENT OPENINGS WITH TEMPORARY PLUGS OR CAPS. KEEP OPENINGS COVERED UNTIL PERMANENT CONNECTIONS ARE COMPLETE.
AS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO MECHANICAL EQUIPMENT, MATERIALS OR WORK UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER.
AT. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH, CAUSED BY HIS EMPLOYEES OR WORK, AT ALL TIMES. REMOVE RUBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDING, AND LEAVE WORK AREAS "BROOM CLEAN" OR ITS EQUIVALENT UPON COMPLETION OF THE WORK. CLEAN MECHANICAL EQUIPMENT AND REMOVE TEMPORARY IDENTIFICATION.
AU. IN CASE OF DISPUTE, THE OWNER WILL REMOVE THE RUBBISH AND CHARGE THE COST TO THE CONTRACTOR.
AV. BEFORE START-UP, LUBRICATE, CHARGE, AND FILL SYSTEMS AS SPECIFIED AND ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
AW. CLEAN, DISINFECT, AND TEST ALL PLUMBING AND PIPING SYSTEMS.
AX. PERFORM TESTING, ADJUSTING AND BALANCING IN ACCORDANCE WITH THAT SECTION.
AY. OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL FIELD OBSERVATION AND OWNER INSTRUCTIONS.
AZ. ATTEND PRE-TESTING CONFERENCE AS SCHEDULED BY TESTING, ADJUSTING AND BALANCING CONTRACTOR.
BA. PROVIDE ASSISTANCE TO TEST, ADJUSTING AND BALANCING CONTRACTOR BY MAKING ADJUSTMENTS TO SYSTEM AND SYSTEM COMPONENTS REQUIRED FOR ACHIEVING DESIGN PERFORMANCE.
BB. IF ACCEPTABLE PERFORMANCE OF ANY TEST IS NOT ACHIEVED, MAKE THE NECESSARY CORRECTIONS AND THE TEST SHALL BE REPEATED UNTIL ACCEPTABLE PERFORMANCE IS ACHIEVED.
BC. FULLY INSTRUCT THE OWNER'S DESIGNATED PERSONNEL IN THE OPERATION OF EACH MECHANICAL SYSTEM AT THE TIME IT IS PUT INTO SERVICE. PROVIDE INSTRUCTION USING COMPETENT INSTRUCTORS AND FACTORY TRAINED PERSONNEL.
BD. INCLUDE DOCUMENTATION OF INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUALS.
BE. OBTAIN A WRITTEN STATEMENT FROM THE OWNER THAT HIS DESIGNATED PERSONNEL HAVE BEEN INSTRUCTED.
BF. SUBMIT COMPLETED BOUND OPERATION AND MAINTENANCE MANUALS TO OWNER INCLUDING SHOP DRAWINGS, WARRANTIES, TEST REPORTS, CERTIFICATIONS, TEST AND BALANCE REPORTS, SYSTEM VALIDATION REPORTS AND RECORD DRAWINGS.

15025 DEMOLITION

A. FURNISH LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR CUTTING, DEMOLITION, REMOVAL, PATCHING, AND RESTORATION WORK NECESSARY TO ACCOMPLISH AND COMPLETE ALL DEMOLITION, INCLUDING ANY RELOCATION OR REUSE OF EXISTING MATERIALS, EQUIPMENT, SYSTEMS, AS WELL AS THE DISPOSITION OF SALVAGED MATERIALS OR DEBRIS.
B. ACCOMPLISH ALL WORK OF CUTTING, REMOVAL, DEMOLITION, RELOCATION, PATCHING, AND RESTORATION BY USING ONLY MECHANICS SKILLED IN THE TRADE REQUIRED. PROVIDE FOR THE SAFETY OF THE EXISTING BUILDING AND PERSONNEL, AS WELL AS FOR NEW CONSTRUCTION AS A RESULT OF WORK, PROCEDURES, OPERATIONS OR ACTIVITIES UNDER THIS CONTRACT.
C. WHERE THE WORK OF REMOVALS, DEMOLITION, CUTTING AND SIMILAR WORK INVOLVES STRUCTURAL CONSIDERATIONS, CONSULT WITH STRUCTURAL ENGINEER. EXERCISE EXTREME CARE TO AVOID DAMAGE AND PRESERVE THE SAFETY OF THE STRUCTURE AND OF ALL PERSONNEL. PARTICULAR CARE MUST BE TAKEN WHERE THE DEMOLITION OR REMOVALS OCCUR ADJACENT TO OCCUPIED AREAS.
D. UTILIZE COMPETENT AND QUALIFIED TECHNICAL ASSISTANCE TO DEVELOP SAFE METHODS AND TECHNIQUES TO ACCOMPLISH THE WORK, INCLUDING TEMPORARY SHORING AND SUPPORTS, METHODS OF REMOVAL AND OTHER CONSIDERATIONS. DESIGN AND PLACE ALL PERMANENT OR TEMPORARY SUPPORTS TO CARRY ALL LOADS DOWN TO SOUND BEARING.

15081 DUCTWORK INSULATION

A. MATERIALS: CONFORM TO MAXIMUM FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 IN ACCORDANCE WITH ASTM E84, NFPA 255 AND UL 723.
B. CONFORM TO LOCAL CODE AND ASTM STANDARDS FOR "K" VALUE, MOISTURE VAPOR TRANSMISSION, MAXIMUM MOISTURE ABSORPTION, JACKET, INSULATING CEMENT, AND ADHESIVE.
C. INSTALL IN ACCORDANCE WITH NAIMA NATIONAL INSULATION STANDARDS.
D. MANUFACTURER:
1. GLASS FIBER (FLEXIBLE): JOHNS MANVILLE MICROLITE XG SERIES, FORMALDEHYDE-FREE. EQUIVALENT PRODUCTS: CERTAINTEED, KNAUF, OWENS-CORNING.
2. GLASS FIBER (RIGID): JOHNS MANVILLE MANVILLE 800 SERIES SPIN-GLAS. EQUIVALENT PRODUCTS: CERTAINTEED, KNAUF, OWENS-CORNING.
3. GLASS FIBER DUCT LINER, FLEXIBLE: JOHNS MANVILLE PERMACOTE LINACOUSTIC STANDARD. EQUIVALENT PRODUCTS: CERTAINTEED, KNAUF, OWENS-CORNING.
E. EXTERIOR APPLICATIONS: PROVIDE INSULATION WITH WEATHERPROOF VAPOR BARRIER JACKET. COVER WITH CAULKED ALUMINUM WATERPROOF JACKET WITH SEAMS LOCATED ON BOTTOM SIDE OF HORIZONTAL DUCT SECTION.
F. DUCTS EXPOSED TO OUTDOORS: RIGID GLASS FIBER - EXTERNAL: MIN. INSTALLED R-8.
G. DUCTWORK EXPOSED IN MECHANICAL EQUIPMENT ROOMS OR FINISHED SPACES BELOW 10 FEET ABOVE FINISHED FLOOR: FINISH WITH CANVAS JACKET SIZED FOR FINISH PAINTING.
H. COMBINATION FILTER MIXING BOXES: RIGID GLASS FIBER - EXTERNAL: 1-1/2 INCHES THICK.
I. MIXED AIR DUCTS:
1. FLEXIBLE GLASS FIBER BLANKET - EXTERNAL: 1-1/2 INCHES THICK.
2. RIGID GLASS FIBER - EXTERNAL: 1-1/2 INCHES THICK.
J. COMBUSTION AIR DUCTS: RIGID GLASS FIBER - EXTERNAL: 1-1/2 INCHES THICK.
K. DRIP PAN BELOW ROOF FANS: FLEXIBLE GLASS FIBER BLANKET - EXTERNAL: 1-1/2 INCHES THICK.
L. EXHAUST AND RELIEF AIR DUCTS WITHIN 10 FT OF EXTERIOR OPENINGS (EXCEPT FOR KITCHEN RANGE HOOD EXHAUST SYSTEMS): FLEXIBLE GLASS FIBER BLANKET - EXTERNAL: 1-1/2 INCHES THICK.
M. OUTSIDE AIR INTAKE DUCTS:
1. FLEXIBLE GLASS FIBER BLANKET - EXTERNAL: 3 INCHES THICK.
2. RIGID GLASS FIBER - EXTERNAL: 1-1/2 INCHES THICK.
N. SUPPLY DUCTS - UNCONDITIONED/INDIRECTLY CONDITIONED SPACE: FLEXIBLE GLASS FIBER BLANKET - EXTERNAL: MIN. INSTALLED R-5.
O. SUPPLY DUCTS - DIRECTLY CONDITIONED SPACE: NONE REQUIRED.
P. TRANSFER DUCTS: FLEXIBLE GLASS FIBER DUCT LINER: 1/2 INCH THICK.
O. RETURN DUCTS (FROM HVAC UNIT TO 3' AFTER FIRST CHANGE IN DUCT DIRECTION FOR SOUND ATTENTUATION): FLEXIBLE GLASS FIBER DUCT LINER: 1/2 INCH THICK
P. INSULATION THICKNESS SHALL BE AS PER SPECIFICATION, LOCAL CODE OR ASHRAE STANDARD 90.1-2004, WHICHEVER IS MORE STRINGENT.

15083 PIPING INSULATION

A. CONFORM TO MAXIMUM FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 IN ACCORDANCE WITH ASTM E84, NFPA 255 AND UL 723.
B. CONFORM TO LOCAL CODE AND ASTM STANDARDS FOR "K" VALUE, MOISTURE VAPOR TRANSMISSION, MAXIMUM MOISTURE ABSORPTION, JACKET, INSULATING CEMENT, AND ADHESIVE.
C. MANUFACTURER: GLASS FIBER: SCHULLER-MANVILLE MICRO-LOK AP-T PLUS AND AP.
D. EQUIVALENT PRODUCTS: CERTAINTEED, KNAUF, OWENS-CORNING.
D. INSTALL IN ACCORDANCE WITH NAIMA NATIONAL INSULATION STANDARDS.
E. PROVIDE NEW MATERIAL HAS BEEN TESTED BEFORE APPLYING INSULATION MATERIALS.
F. VERIFY THAT SURFACES ARE CLEAN AND DRY, WITH FOREIGN MATERIAL REMOVED.
G. CONTINUE INSULATION THROUGH WALLS, SLEEVES, PIPE HANGERS, AND OTHER PIPE PENETRATIONS.
H. FINISH AT DISCONTINUATION POINTS WITH BEVELED ENDS.
H. PLUMBING VENT (WITHIN 3 FEET OF EXTERIOR): INSULATION THICKNESS - 1/2 INCH.
I. DOMESTIC COLD WATER: INSULATION THICKNESS: 1 INCH.
J. DOMESTIC AND SERVICE HOT WATER - 105+ DEG F:
1. PIPE SIZE - 2 INCHES AND LESS: INSULATION THICKNESS: 1 INCH.
2. PIPE SIZE - 2-1/2 INCHES AND LARGER: INSULATION THICKNESS: 1-1/2 INCH.
S. INSULATION THICKNESS SHALL BE PER PER SPECIFICATION, LOCAL CODE OR ASHRAE STANDARD 90.1-2004, WHICHEVER IS MORE STRINGENT.

15100 PLUMBING PIPING

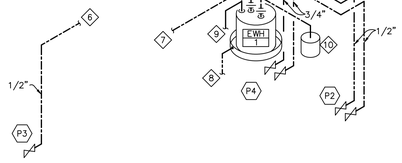
A. SANITARY PIPING.
1. CAST IRON PIPE: ASTM A74 SERVICE WEIGHT, FITTINGS: CAST IRON, JOINTS: HUB-AND-SPIGOT, COMPRESSION TYPE WITH NEOPRENE GASKETS OR LEAD AND OAKUM.
2. CAST IRON PIPE: CISPI 301, HUBLESS, FITTINGS: CAST IRON, JOINTS: NEOPRENE GASKET AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES.
3. ABS PIPE (BELOW GRADE): ASTM D2661, FITTINGS: ABS, JOINTS: SOLVENT WELD.
4. PVC PIPE (BELOW GRADE): ASTM D2665, FITTINGS: PVC, JOINTS: SOLVENT WELD WITH SOLVENT CEMENT.
5. COPPER TUBE (ABOVE GRADE): ASTM B88 TYPE "L"; HARD TEMPER ONLY. EXCEPT THESE MATERIALS SHALL NOT BE USED TO RECEIVE THE WASTES FROM URINALS NOR WASTES FROM WATER CLOSETS IN BATTERY, FITTINGS: CAST BRONZE, OR WROUGHT COPPER, JOINTS: SOLDER, BRAZE OR THREAD.
B. WATER PIPING.
1. COPPER TUBING (BELOW GRADE): ASTM B88, TYPE "K" SOFT COPPER, FITTINGS: CAST COPPER ALLOY OR WROUGHT COPPER AND BRONZE, JOINTS: BCUP SILVER BRAZE.
2. COPPER TUBING (ABOVE GRADE): ASTM B88, TYPE "L" HARD DRAWN, FITTINGS: CAST COPPER ALLOY OR WROUGHT COPPER AND BRONZE, JOINTS: BCUP SILVER BRAZE.
C. VERIFY THAT EXCAVATIONS ARE TO REQUIRED GRADE, DRY, AND NOT OVER-EXCAVATED.
D. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.
E. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS.
F. INSTALL VENT PIPING PENETRATING ROOFED AREAS TO MAINTAIN INTEGRITY OF ROOF ASSEMBLY.
G. WHERE PIPE SUPPORTS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF ZINC RICH PRIMER TO WELDING.
H. PROVIDE SUPPORT FOR UTILITY METERS IN ACCORDANCE WITH REQUIREMENTS OF UTILITY COMPANIES.
I. PREPARE EXPOSED, UNFINISHED PIPE, FITTINGS, SUPPORTS, AND ACCESSORIES READY FOR FINISH PAINTING.
J. PIPE VENTS FROM GAS PRESSURE REDUCING VALVES TO OUTDOORS AND TERMINATE IN WEATHER PROOF HOOD.
K. SLEEVE PIPES PASSING THROUGH PARTITIONS, WALLS AND FLOORS.
L. USE GROOVED MECHANICAL COUPLINGS AND FASTENERS ONLY IN ACCESSIBLE LOCATIONS.
M. PROVIDE UNIONS DOWNSTREAM OF VALVES AND AT EQUIPMENT OR APPARATUS CONNECTIONS.
N. PROVIDE BRASS OR BRONZE LINT PROOF SEATS AND SIDE OUTLET VALVES IN COPPER PIPED SYSTEM. SOLDER ADAPTERS TO PIPE.
R. PROVIDE FLOW CONTROLS IN ALL BRANCHES OF WATER RECIRCULATING SYSTEMS.
S. ESTABLISH INVERT ELEVATIONS, SLOPES FOR DRAINAGE TO 1/4 INCH PER FOOT (SMALLER THAN 3 INCH PIPING), AND 1/8 INCH PER FOOT (3 INCHES AND LARGER) MINIMUM. MAINTAIN GRADIENTS.
T. SLOPE WATER PIPING MINIMUM 0.25 PERCENT AND ARRANGE TO DRAIN AT LOW POINTS.
U. PROVIDE NEW SANITARY SEWER SERVICES. BEFORE COMMENCING WORK CHECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM INVERTS AND ENSURE THAT THESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING.
V. PROVIDE SUPPORT AND EQUIPMENT REQUIRED TO CONTROL EXPANSION AND CONTRACTION OF PIPING. PROVIDE LOOPS, BENDS, OFFSETS, AND SWING JOINTS, OR EXPANSION JOINTS WHERE REQUIRED.
W. PROVIDE HANGERS IN QUANTITY AND SPACING REQUIRED TO SUFFICIENTLY SUPPORT PIPING.

15110 PLUMBING SPECIALTIES

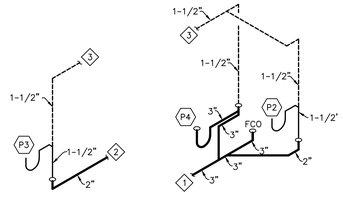
A. MANUFACTURERS:
1. GATE VALVES (UP TO AND INCLUDING 2"): STOCKHAM MODEL B-105, OR EQUIVALENT BY: HAMMOND, KITZ, MILWAUKEE, NIBCO, WATTS, CRANE.
2. BALL VALVES (UP TO AND INCLUDING 2"): APOLLO 77-100/77-200 SERIES, OR EQUIVALENT BY: HAMMOND, KITZ, MILWAUKEE, NIBCO, WATTS, CRANE.
3. SWING CHECK VALVES (UP TO AND INCLUDING 2-1/2"): STOCKHAM MODEL B-309/B-319, OR EQUIVALENT BY: HAMMOND, KITZ, MILWAUKEE, NIBCO, CRANE.
4. BALL VALVES (FOR NATURAL GAS): APOLLO 80-100 SERIES, OR EQUIVALENT BY: HAMMOND, KITZ, MILWAUKEE, NIBCO, WATTS
5. TEMP. AND PRESS. RELIEF VALVE (UP TO 80,000 BTU INPUT): WATTS 10L MODEL M7
6. WATER HAMMER ARRESTOR: WATTS SERIES 15
7. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER: WATTS SERIES 909
8. RPZ AIR GAP FITTING: WATTS 909AG
9. RPZ AIR GAP VENT ELBOW: WATTS 909EL (REQUIRED IN ADDITION TO 909AG IF MTD. VERTICALLY).
10. BACKFLOW PREVENTER: WATTS SERIES 007
11. VACUUM BREAKER: WATTS N36 - ½"
12. PRESSURE REDUCING VALVE: WATTS SERIES U5
13. ATMOSPHERIC VACUUM BREAKER: WATTS SERIES 288A
14. HOSE END VACUUM BREAKER: WATTS SERIES 8
15. DIELECTRIC UNION: WATTS SERIES 3000
16. TRAP SEAL PRIMER VALVE: JOSAM 89250, OR EQUIVALENT BY: J.R. SMITH, WADE, ZURN
B. INSTALL APPROVED POTABLE WATER PROTECTION DEVICES ON PLUMBING LINES WHERE CONTAMINATION OF DANGEROUS WATER MAY OCCUR, IN JANITOR ROOMS, FIRE SPRINKLER SYSTEMS, PREMISE ISOLATION.
C. INSTALL WATER HAMMER ARRESTORS COMPLETE WITH ACCESSIBLE ISOLATION VALVE ON HOT AND COLD WATER SUPPLY PIPING WHERE REQUIRED BY CODE AND PER MANUFACTURERS RECOMMENDATIONS/REQUIREMENTS.

15325 SPRINKLER SYSTEMS

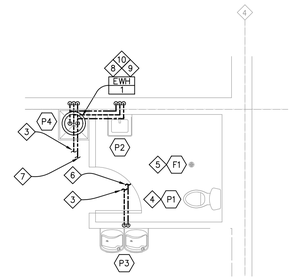
A. CONTRACTOR SHALL DESIGN AND HYDRAULICALLY CALCULATE THE NEW AND RENOVATION OF EXISTING PIPING SYSTEMS, INCLUDING LOCATION OF ALL VALVES, DEVICES, AND SPRINKLER HEADS. DESIGN SPRINKLER SYSTEM PIPING BASED ON HAZARD RATING AS OF THE MOST STRINGENT OF THE REGULATING AGENCIES RESPONSIBLE FOR THIS FACILITY, INCLUDING THE OWNER INSURANCE COMPANY REQUIREMENTS AND THE GOVERNING AUTHORITIES, FM OR AS DETERMINED BY LOCAL REQUIREMENTS. PERFORM WORK IN ACCORDANCE WITH NFPA 13.
B. SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND HYDRAULIC CALCULATIONS TO AUTHORITY HAVING JURISDICTION, AND OWNER'S INSURANCE UNDERWRITER FOR APPROVAL. SUBMIT PROOF OF APPROVAL OF AUTHORITY HAVING JURISDICTION.
C. VERIFY THAT EXCAVATIONS ARE TO REQUIRED GRADE, DRY, AND NOT OVER-EXCAVATED.
D. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.
E. PROVIDE METAL STORAGE CABINET WITH EXTRA SPRINKLERS LOCATED ADJACENT TO THE VALVE ASSEMBLY.
F. SPRINKLER MANUFACTURERS: AUTOMATIC SPRINKLER OF AMERICA, RELIABLE AUTOMATIC SPRINKLER COMPANY, STAR SPRINKLER COMPANY, VIKING CORPORATION.
G. WATER FLOW SWITCH: VANE TYPE SWITCH FOR MOUNTING HORIZONTAL OR VERTICAL, WITH TWO CONTACTS; RATED 10 AMP AT 125 VOLT AC AND 2.5 AMP AT 24 VOLT DC.
H. INSTALL SYSTEM IN ACCORDANCE WITH NFPA 13.
I. INSPECTOR'S TEST CONNECTION: FOR EACH SPRINKLER SYSTEM AND FOR EACH WATERFLOW ALARM DEVICE, WHERE MULTIPLE DEVICES OCCUR, PROVIDE AN INSPECTOR'S TEST ASSEMBLY.
J. PROVIDE A FLOW SWITCH FOR EACH SYSTEM. SET RETARD ON FLOW SWITCHES TO 30 SECONDS OR AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
K. PROVIDE A COMPLETE FIRE PROTECTION SYSTEM IN ELECTRICAL TRANSFORMER VAULTS, SWITCHGEAR ROOMS, PANEL ROOMS AND SMALL ELECTRICAL CLOSETS PER NFPA 13 AND LOCAL AUTHORITY.
N. EXISTING FIRE PROTECTION SYSTEMS:
1. IN BUILDINGS WITH EXISTING FIRE PROTECTION SYSTEMS, THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THE OWNER TO MINIMIZE DISRUPTION OF THAT SYSTEM.
2. NO FIRE PROTECTION SYSTEM IS TO REMAIN DEACTIVATED AT THE END OF THE WORK DAY UNLESS AGREED TO WITH THE PROPERTY OWNER, AND A SUITABLE FIRE PROTECTION SCHEME SUCH AS A MANNED FIRE WATCH, HAS BEEN IMPLEMENTED AND APPROVED BY THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL FIRE PROTECTION SYSTEMS ARE FILLED, AND THE SYSTEM FUNCTIONAL BEFORE COMPLETING HIS WORK DAY.
O. CENTER SPRINKLERS IN ONE DIRECTION ONLY IN CEILING TILE WITH LOCATION IN OTHER DIRECTION VARIABLE, DEPENDENT UPON SPACING AND COORDINATION WITH CEILING ELEMENTS.
P. ENSURE REQUIRED DEVICES ARE INSTALLED AND CONNECTED AS REQUIRED TO FIRE ALARM SYSTEM.
Q. COORDINATE PIPING WITH STRUCTURAL, MECHANICAL PIPING AND DUCTWORK, AND ELECTRICAL WITHIN THE BUILDING. PIPING CONFLICTS BETWEEN SYSTEM SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
R. CONDUCT ALL APPLICABLE TESTS AS REFERENCED IN NFPA STANDARD 13. ALL NECESSARY TESTS SHALL BE CONDUCTED IN CONFORMANCE WITH REQUIREMENTS OF NFPA.
S. WIRING FOR FLOW SWITCHES,



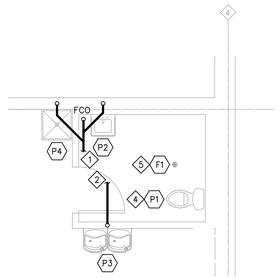
4 WATER RISER
NTS



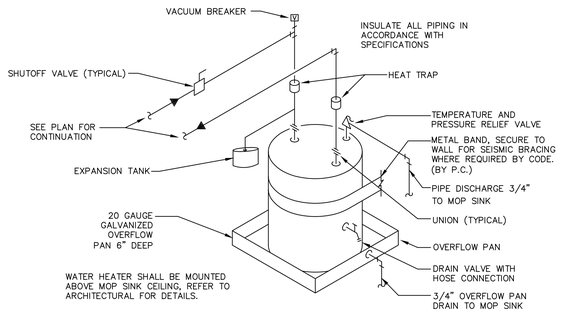
3 WASTE AND VENT RISER
NTS



2 ABOVE FLOOR PLUMBING PLAN
1/4" = 1'-0"



1 UNDERFLOOR PLUMBING PLAN
1/4" = 1'-0"



5 WATER HEATER DETAIL
NO SCALE

KEY NOTES

1. EXTEND AND CONNECT NEW 3" SANITARY SEWER TO EXISTING 3" (MIN) SANITARY SEWER PIPING. FIELD VERIFY EXACT LOCATION, SIZE, FLOW DIRECTION, AND INVERT ELEVATION OF CONNECTION POINT PRIOR TO ROUGH-IN OF NEW SANITARY SEWER. PROVIDE FCO AT POINT OF CONNECTION TO EXISTING.
2. EXTEND AND CONNECT NEW 2" SANITARY SEWER TO EXISTING 2" (MIN) SANITARY SEWER PIPING. FIELD VERIFY EXACT LOCATION, SIZE, FLOW DIRECTION, AND INVERT ELEVATION OF CONNECTION POINT PRIOR TO ROUGH-IN OF NEW SANITARY SEWER. PROVIDE FCO AT POINT OF CONNECTION TO EXISTING.
3. EXTEND NEW 1-1/2" VENT UP TO EXISTING 1-1/2" VENT. FIELD VERIFY EXACT LOCATION OF VENT PIPING PRIOR TO ROUGH-IN.
4. EXISTING WATER CLOSET TO REMAIN. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.
5. EXISTING FLOOR DRAIN TO REMAIN. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.
6. EXTEND AND CONNECT NEW 1/2" CW PIPING TO EXISTING 1/2" (MIN) CW PIPING. FIELD VERIFY EXACT LOCATION OF CW PIPING PRIOR TO ROUGH-IN. PROVIDE SHUTOFF VALVE AT POINT OF CONNECTION TO EXISTING.
7. EXTEND AND CONNECT NEW 3/4" CW PIPING TO EXISTING 3/4" (MIN) CW PIPING. FIELD VERIFY EXACT LOCATION OF CW PIPING PRIOR TO ROUGH-IN. PROVIDE SHUTOFF VALVE AT POINT OF CONNECTION TO EXISTING.
8. PIPE DRIP PAN FULL SIZE TO CODE APPROVED AIR GAP OVER SERVICE SINK.
9. PIPE 3/4" FROM ASME RATED T&P VALVE TO CODE APPROVED AIR GAP OVER SERVICE SINK.
10. PROVIDE THERMAL EXPANSION TANK EQUAL TO STATE MODEL ETC-2X. ADJUST EXPANSION TANK AIR CHARGE TO MATCH INCOMING WATER PRESSURE (FIELD VERIFY).

GENERAL NOTES

A. VERIFY POINT OF CONNECTION AND SCOPE OF WORK TO INSTALL ALL PLUMBING PIPING & EQUIPMENT TO SPACE PRIOR TO BID. IF INCONSISTENCIES OCCUR BETWEEN PLANS AND LANDLORD CRITERIA, TENANT'S CONSTRUCTION MANAGER SHALL BE NOTIFIED PRIOR TO BID SUBMITTAL.

ELECTRIC WATER HEATER SCHEDULE
EWH # | 5 P1.0

UNIT NO.	MANUFACTURER	MODEL	KW	CAPACITY (GAL.)	STAGES	VOLTAGE	OUTPUT (GPH @ 90° RISE)	REMARKS
EWH-1	A.O. SMITH	DEL-10	1.5	10	1	120/1/60	7	REFER TO DETAIL 5/P1.0

PLUMBING FIXTURE SCHEDULE
P# | F#

FIXTURE NO.	FIXTURE TYPE	MANUFACTURER	TYPE & MODEL NO.	TRIM/FAUCET NO.	SUPPORT	PIPE SIZES					REMARKS
						TRAP	WASTE	VENT	CW	HW	
P1	WATER CLOSET	-	-	-	FLOOR MOUNT	-	4"	2"	1/2"	-	EXISTING TO REMAIN.
P2	LAVATORY	ZURN	Z5344	ZURN FAUCET Z866B0	WALL HUNG	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE INSULATED CAST BRASS P-TRAP, TRUEBRO LAV GUARD II, MODEL # 82174, SUPPLY STOPS, DRAIN KIT, TAILPIECE, GOOSE NECK FAUCET, SELF-CLOSING, 0.5 GPM FLOW LIMIT. PROVIDE ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVES.
P3	HI-LO WATER COOLER	OASIS	BI-LEVEL PGBACSL	- -	WALL MOUNT	1-1/2"	1-1/2"	1-1/2"	1/2"	-	BI-LEVEL VERSA COOLER II WTH ENERGY AND WATER CONSERVATION TECHNOLOGY. UNIT SHALL DELIVER 8 GPH OF 50°F.
P4	MOP SINK	FLORESTONE	MSR-2424	FIAT	FLOOR	3"	3"	1-1/2"	3/4"	3/4"	PROVIDE HOSE, HOSE BRACKET, & MOP HANGER. FAUCET TO BE CHROME PLATED.
F1	FLOOR DRAIN	-	-	-	-	3"	3"	1-1/2"	-	-	EXISTING TO REMAIN.
FCO	FLOOR CLEAN OUT	J.R. SMITH OR EQUAL	SERIES 4020	-	-	-	3"	-	-	-	PROVIDE POLISHED NICKEL BRONZE COVER.

JD

#1519

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12/05/2025

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PROJECT STATUS

NO.	DATE	DESCRIPTION

REVISION DATES

12/05/2025

ORIGINAL ISSUE DATE

HEI PROJECT NO.:	R25-5119.031
DRAWN BY:	TMS
CHECKED BY:	LAK

PLUMBING PLANS AND RISER DIAGRAMS

P1.0