

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS OF THE APPLICABLE CODES INDICATED IN THE BUILDING SUMMARY COLUMN AND ALL LOCAL CODES PRESENTLY IN EFFECT UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
2. ALL NEW CONSTRUCTION SHALL COMPLY W/ THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE (INCLUDES ICC A117.1 PER IBC)ACCESSIBILITY
3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND ALL UTILITY CHARGES, AND ARRANGE FOR ALL REQUIRED INSPECTIONS.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING BUILDING & SITE UTILITIES BETWEEN CIVIL & MEP DRAWINGS. THE CONTRACTOR SHALL ALSO CONTACT ALL APPLICABLE UTILITY COMPANIES & PROVIDE CONDUIT & OTHER FACILITIES AS REQUIRED.
5. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS & CONDITIONS ON THE JOB SITE PRIOR TO THE BIDDING OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- IN CASES OF DISCREPANCY CONCERNING DIMENSIONS, QUANTITIES AND LOCATION, THE CONTRACTOR SHALL, IN WRITING, CALL TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES BETWEEN SPECIFICATIONS, PLANS, DETAILS OR SCHEDULES. THE ARCHITECT WILL THEN INFORM THE CONTRACTOR, IN WRITING, WHICH DOCUMENT TAKES PRECEDENCE. THERE SHALL BE NO ADJUSTMENT TO THE COST OR TIME OF THE WORK RESULTING FROM CLARIFICATION OF SUCH DISCREPANCIES.
6. DIMENSIONS ON DRAWINGS ARE SHOWN TO FINISHED FACE OF WALLS AND PARTITIONS OF EXISTING OR NEW CONSTRUCTION UNLESS OTHERWISE NOTED. CEILING HEIGHT DIMENSIONS AND ALL OTHER VERTICAL DIMENSIONS ARE TO THE FINISHED FLOOR SURFACE UNLESS OTHERWISE NOTED.
7. ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS, PRODUCT DATA, OR SAMPLES FOR CASEWORK, FINISHES, DOORS, FRAMES, HARDWARE, MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, AND OTHER ITEMS REQUIRING ARCHITECT'S REVIEW FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, AND FOR ALL ITEMS WHICH ALLOWED CONTRACTOR OPTIONS. PRIOR TO FORWARDING TO THE ARCHITECT FOR REVIEW, THESE SUBMITTALS MUST BE REVIEWED BY THE CONTRACTOR FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL AFFIX HIS STAMP TO SUBMITTAL INDICATING HIS REVIEW. SUBMITTALS FORWARDED WITHOUT A STAMP WILL BE RETURNED. ALL SUBMITTALS MUST BE REVIEWED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST FAULT OF ANY MATERIAL OR WORKMANSHIP FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER COMPLETION OR ACCEPTANCE. FAULTY WORK SHALL BE REPLACED OR REPAIRED AS REQUIRED AT NO COST TO THE OWNER.
10. CONTRACTOR SHALL COORDINATE WITH OWNER ALL ITEMS TO BE SALVAGED PRIOR TO SUBMISSION OF BIDS AND START OF CONSTRUCTION. OWNER SHALL HAVE SALVAGE RIGHTS TO RETAIN ALL REMOVED ITEMS.
11. ALL CHANGES PROPOSED DURING CONSTRUCTION WHICH RESULT IN A CHANGE TO THE CONTRACT TIME AND/OR SUM SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING AND APPROVED BY THE ARCHITECT AND OWNER BEFORE SUCH WORK SHALL COMMENCE.
12. CONTRACTOR SHALL COORDINATE CLEAR OPENINGS FOR ALL APPLIANCES PRIOR TO CONSTRUCTION OF CASEWORK.
13. CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-RETARDANT TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
14. CONTRACTOR SHALL COORDINATE ALL LOCK AND LATCH SETS AND FINAL KEYING WITH OWNER. DOUBLE KEYED LOCKS ARE NOT PERMITTED ON ANY REQUIRED OR MARKED EXIT. MATCH EXISTING KEYING SYSTEM IF ONE IS EXISTING.
15. ALL DOOR HARDWARE ON EXIT DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT.
16. CONTRACTOR SHALL PREPARE ALL NEW AND EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SUBSTRATE AND FINISH BEING APPLIED.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONSTRUCTION INDICATED TO REMAIN AND SHALL REPAIR AND/OR REPLACE ALL AREAS AND/OR MATERIALS DAMAGED DURING CONSTRUCTION AT A MINIMUM TO THE CONDITION WHICH EXISTED PRIOR TO CONSTRUCTION.
18. CONTRACTOR SHALL COORDINATE FINAL QUANTITY AND LOCATIONS OF FIRE EXTINGUISHERS WITH THE FIRE DEPARTMENT AND/OR BUILDING DEPARTMENT. SEE SYMBOLS LEGEND FOR TYPE OF EXTINGUISHER.
19. ALL CONSTRUCTION MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50.
20. ALL PIPING, LOW VOLTAGE WIRE AND CABLE, OPTICAL FIBER, PNEUMATIC TUBING, AND ALL DUCT AND DUCT COVERINGS, LININGS AND CONNECTORS INSTALLED WITHIN PLENUMS MUST BE RATED FOR PLENUM USE.
21. TENANT SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF VOICE AND DATA CABLING AND EQUIPMENT.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE AUTOMATIC SPRINKLER SYSTEM. THE DESIGN SHALL BE PER NFPA REQUIREMENTS.
23. ALL NEW GLASS AND GLAZING LOCATED IN HAZARDOUS LOCATIONS AS DEFINED IN IBC SECTION 2406.3 SHALL MEET THE REQUIREMENTS FOR SAFETY GLAZING AS DEFINED IN IBC SECTION 2406.
24. IF THE CONTRACTOR FAILS TO SUBMIT A MATERIAL FOR APPROVAL, THE MATERIAL MAY BE REQUIRED TO BE REMOVED BY THE CONTRACTOR EITHER BY DIRECTION OF THE OWNER OR ARCHITECT.
25. NOT USED
26. THE CONTRACTOR IS TO PROVIDE AS BUILT DRAWINGS IN HARD COPY AND AN ELECTRONIC AUTOCAD FILE TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
27. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES, DUCTWORK, AND STRUCTURE PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES, DUCTWORK, AND STRUCTURE. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

DRAWING SYMBOLS LEGEND

EXISTING CONSTRUCTION TO REMAIN.

EXISTING CONSTRUCTION TO BE REMOVED.

NEW CONSTRUCTION.

TENANT DEMISING LINE - WALL TO GO FULL HEIGHT TO DECK

WALL TYPE DESIGNATION - REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DRAWING A1.00 FOR CONSTRUCTION REQUIREMENTS.

NAME ## ROOM NAME AND NUMBER - REFERENCE FLOOR PLAN(S) FOR LOCATIONS.

###X DOOR AND FRAME DESIGNATION - REFERENCE FLOOR PLAN(S) FOR LOCATIONS.

SECTION SYMBOL

REFERENCE SECTION REFERENCE SHEET

ENLARGED DETAIL / ENLARGED PLAN SYMBOL

REFERENCE DETAIL REFERENCE SHEET

INTERIOR ELEVATION SYMBOL

REFERENCE ELEVATION REFERENCE SHEET

XX-# FLOOR FINISH DESIGNATION - REFERENCE FINISH PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR DESCRIPTIONS.

WINDOW DESIGNATION TAG

REVISION NOTE

XX CONSTRUCTION NOTE

FE WALL MOUNTED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENSMFG.COM, MODEL MP10 W/B2 MOUNTING BRACKET, REFERENCE FLOOR PLAN(S) FOR LOCATIONS. MOUNT SO CENTERLINE OF EXTINGUISHER IS 46" A.F.F.

FEC SEMI-RECESSED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENSMFG.COM, ARCHITECTURAL SERIES AL2409-6R, W/MP10 FIRE EXTINGUISHER, CLEAR ALUMINUM SOLID DOOR, AND "FIRE" HANDLE W/ STANDARD FINISH. MOUNT SO CENTERLINE OF CABINET HANDLE IS 46" A.F.F.

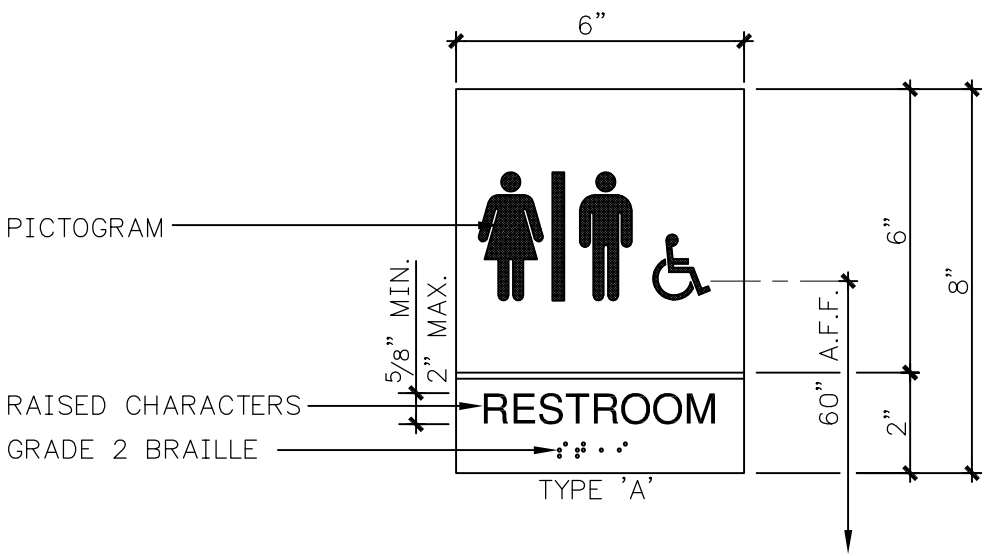
ACCESSIBLE SIGNAGE REQUIREMENTS

PERMANENT ROOMS AND SPACES

SIGNAGE COMPLYING WITH THE SIGN TYPES AND REQUIREMENTS BELOW SHALL BE PROVIDED AT THE FOLLOWING INTERIOR LOCATIONS:

LOCATION	SIGN TYPE
UNISEX 103, 104	TYPE 'A'

SIGNS WHICH DESIGNATE PERMANENT ROOMS AND SPACES SHALL COMPLY WITH ADAAG SECTIONS 4.30.1, 4.30.4, 4.30.5, 4.30.6



ADA STATEMENT

MOMENTUM A+D HAS USED OUR REASONABLE PROFESSIONAL EFFORTS AND JUDGEMENT TO INTERPRET APPLICABLE 2009 ADA REQUIREMENTS, AND TO DESIGN THE IMPROVEMENTS PROPOSED UNDER THIS PERMIT APPLICATION SUBMITTAL FOR THIS PROJECT TO COMPLY WITH ADA AND OTHER FEDERAL, STATE, AND LOCAL RULES, CODES, ORDINANCES, AND REGULATIONS AS THEY APPLY TO THE PROJECT. MOMENTUM A+D, HOWEVER, CANNOT AND DOES NOT WARRANT OR GUARANTEE THAT THE IMPROVEMENTS WILL COMPLY WITH ALL INTERPRETATIONS OF ADA REQUIREMENTS AND/OR REQUIREMENTS OF OTHER FEDERAL, STATE, AND LOCAL LAWS, RULES, ORDINANCES, AND REGULATIONS AS THEY APPLY TO THE PROJECT.

BUILDING SUMMARY

GENERAL BUILDING INFORMATION

TENANT NAME:	F45 FITNESS LEES SUMMIT TENANT IMPROVEMENTS
ADDRESS:	1138 NE DOUGLAS RD., LEE'S SUMMIT, MO
PROPOSED USE:	GROUP FITNESS (A-3 ASSEMBLY / B - BUSINESS)

APPLICABLE CODES

INTERNATIONAL BUILDING CODE (IBC)	2018 EDITION
INTERNATIONAL MECHANICAL CODE (IMC)	2018 EDITION
INTERNATIONAL PLUMBING CODE (IPC)	2018 EDITION
NATIONAL ELECTRICAL CODE (NEC)	2017 EDITION
INTERNATIONAL FUEL GAS CODE (IFGC)	2018 EDITION
INTERNATIONAL FIRE CODE (IFC)	2018 EDITION
ICC/ANSI A117.1 PROVIDING ACCESSIBILITY AND USABILITY FOR PHYSICALLY HANDICAPPED PEOPLE	2009 EDITION

BUILDING DATA

CONSTRUCTION TYPE:	11-B, ONE STORY
AUTOMATIC SPRINKLER:	NON - SPRINKLERED
OCCUPANCY CLASS:	BUSINESS (B)
	ASSEMBLY (A-3, RECREATION)
TENANT AREA:	3,100 S.F.

DESIGN OCCUPANT LOAD:	MULTIPLE FUNCTION OCCUPANT LOAD (2018 IBC 1004.3)
(B, OFFICE+UTILITY)	150 S.F./150 S.F. GROSS PER OCCUPANT = 1
(A-3, ENTRY + LOBBY)	250 S.F./50 S.F. GROSS PER OCCUPANT = 5
(A-3, EXERCISE ROOM)	2,150 S.F./50 S.F. GROSS PER OCCUPANT = 43
	UNOCCUPIED AREAS: CIRCULATION, TOILETS, UTILITY ROOM, 550 SF
	TOTAL DESIGN OCCUPANT LOAD = 49 PPL

EXITS REQUIRED/ PROVIDED:	1 EXIT REQUIRED / 2 PROVIDED, THIRD EXIT AT REAR IS SEPARATED FROM PUBLIC
---------------------------	---

MAX. TRAVEL DIST: NON - SPRINKLERED	(A) 200 FT. MAX. (TABLE 1017.2)
	(B) 200 FT. MAX. (TABLE 1017.2)

PROFESSIONAL SERVICES DISCLAIMER

THIS DISCLAIMER SERVES NOTICE OF ACCEPTANCE OF RESPONSIBILITY AND DISCLAIMER OF RESPONSIBILITY AS TO THE CONTRACT DOCUMENTS PREPARED FOR PROJECT NUMBER 22-020, F45 LEE'S SUMMIT TL BY MOMENTUM ARCHITECTURE+DESIGN.

THE UNDERSIGNED ARCHITECT, AND MOMENTUM A+D, ARE RESPONSIBLE FOR PREPARATION OF ONLY THE NOTED CONSTRUCTION DRAWINGS BELOW:

NO.	TITLE	DATE	REVISED
A0.01	LEGENDS + GENERAL NOTES	12.30.22	
A1.00	WALL TYPES + DETAILS	12.30.22	
D1.01	DEMO PLAN + DEMO REFLECTED CEILING PLAN	12.30.22	
A1.01	CONSTRUCTION PLAN + SPECIFICATIONS	12.30.22	
A2.01	ENLARGED TOILET PLANS + ELEVATIONS	12.30.22	
A4.01	INTERIOR ELEVATIONS	12.30.22	
A8.01	DOOR SCHEDULE + FINISH SCHEDULE + PLAN	12.30.22	
A9.01	REFLECTED CEILING PLAN	12.30.22	
A11.01	SPECIFICATIONS	12.30.22	

THE UNDERSIGNED ARCHITECT AND MOMENTUM A+D DISCLAIM RESPONSIBILITY FOR ALL OTHER CONSTRUCTION DOCUMENTS, AND ANY OTHER SPECIFICATIONS, REPORTS, ESTIMATES, SHOP DRAWINGS, ETC. RELATING TO OR INTENDED TO BE USED FOR ANY PART OF THE ARCHITECTURAL OR ENGINEERING PROJECT, INCLUDING ANY GEOTECHNICAL ENGINEERING SERVICES, OR ENVIRONMENTAL REPORTS.

THIS NOTICE IS EXECUTED BY THE UNDERSIGNED AND AUTHENTICATED BY THE ARCHITECTURAL SEAL OF THE PERSON PREPARING THIS NOTICE.

BY  (SEAL)
ARCHITECT: JASON B. HANSEN 12.30.22



Tenant Improvements For:

To Be Located At:

1138 NE Douglas Rd.,
Lee's Summit, MO 64086

F45
Lee's Summit

Date:

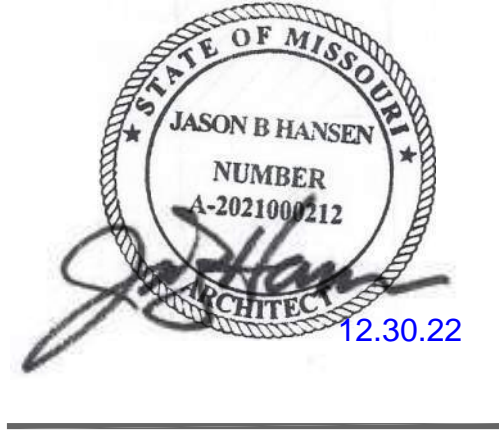
12/30/22

Issued For:

PERMIT

REVISIONS

No.	Date	Description



PROJECT TEAM

ARCHITECT MOMENTUM ARCHITECTURE+DESIGN

STRUCTURAL

MECHANICAL 5BYS ENGINEERS

ELECTRICAL 5BYS ENGINEERS

FIRE PROTECTION

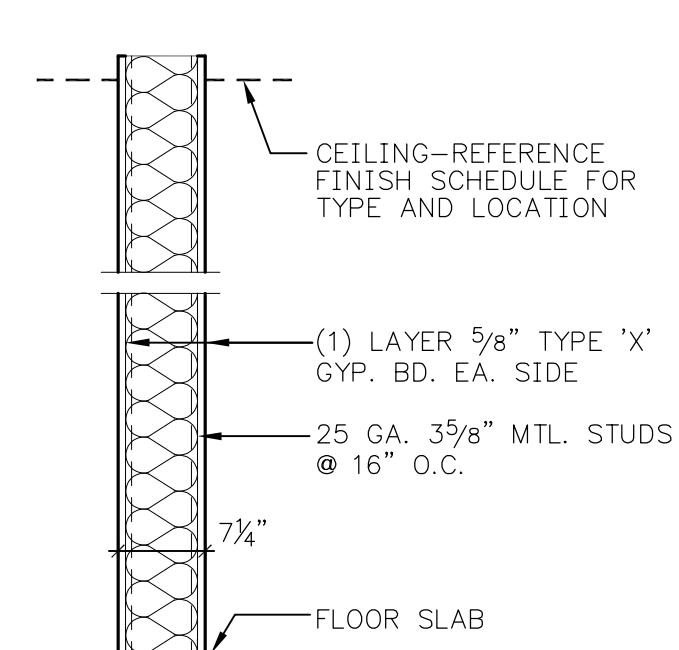
CONTRACTOR HAWTHORN PROJECTS

MOMENTUM
ARCHITECTURE+DESIGN

KS - MO
Commercial & Residential
913 + 904 - 6734

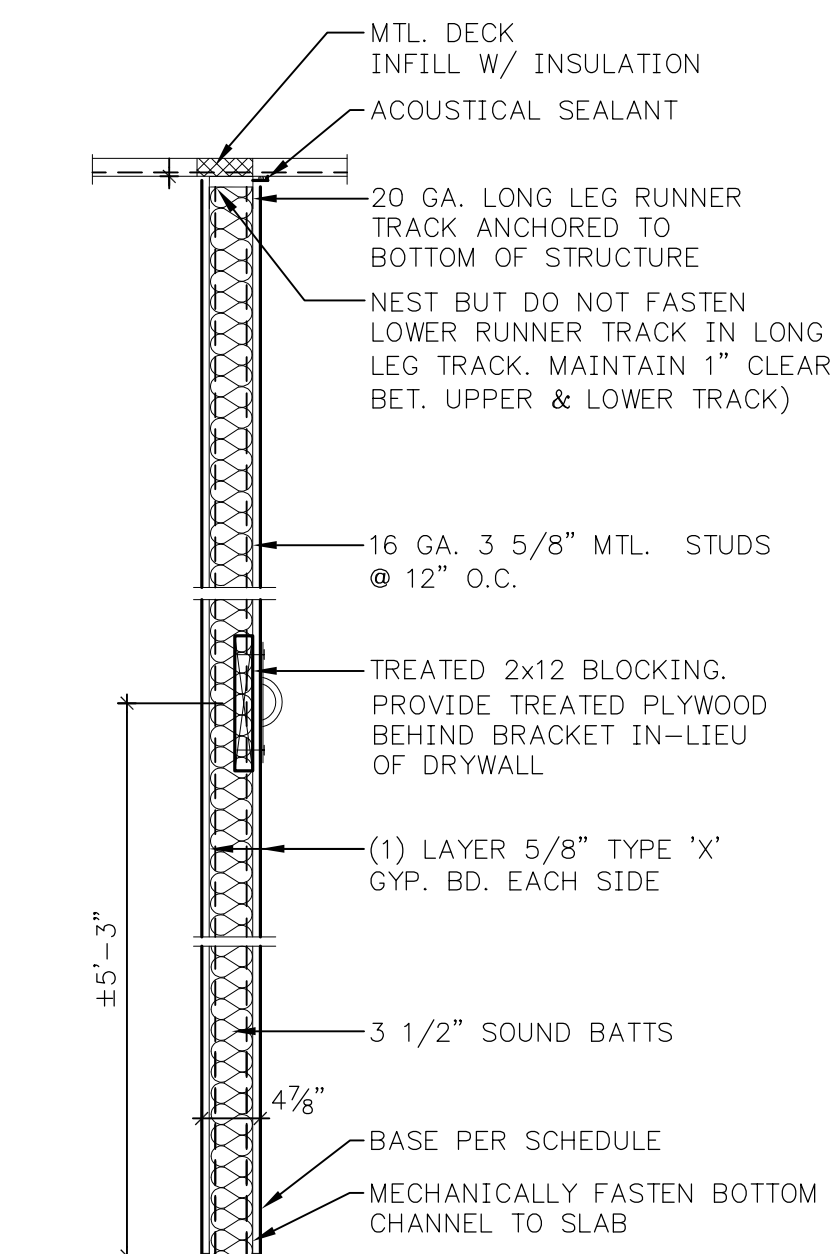
NO.

A0.01

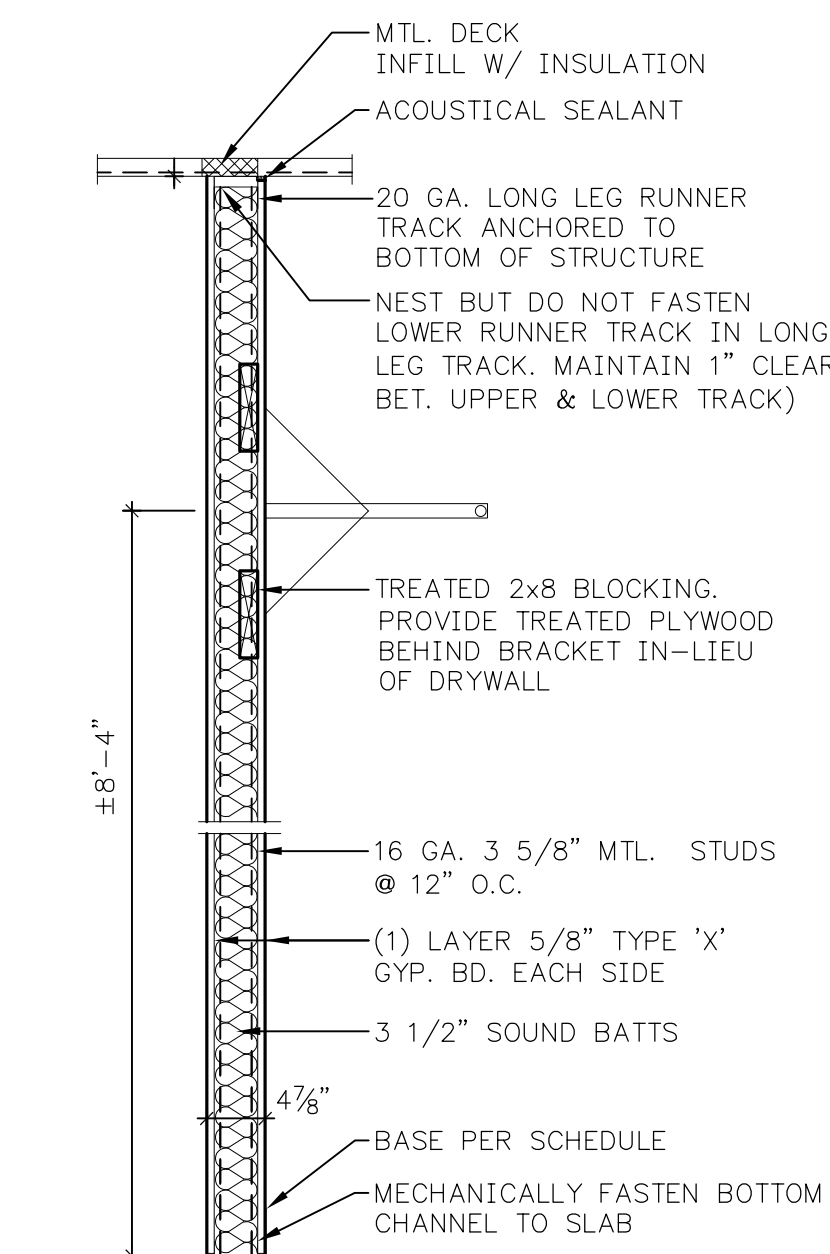


- a** WALL TO HAVE 6" SOUND INSUL.
- b** 5/8" WATER RESISTANT GYP. BD.
ON "WET ROOM WALLS"
- c** WALL TO HAVE BOTH INSUL. AND
WATER RESISTANT GYP. BD.

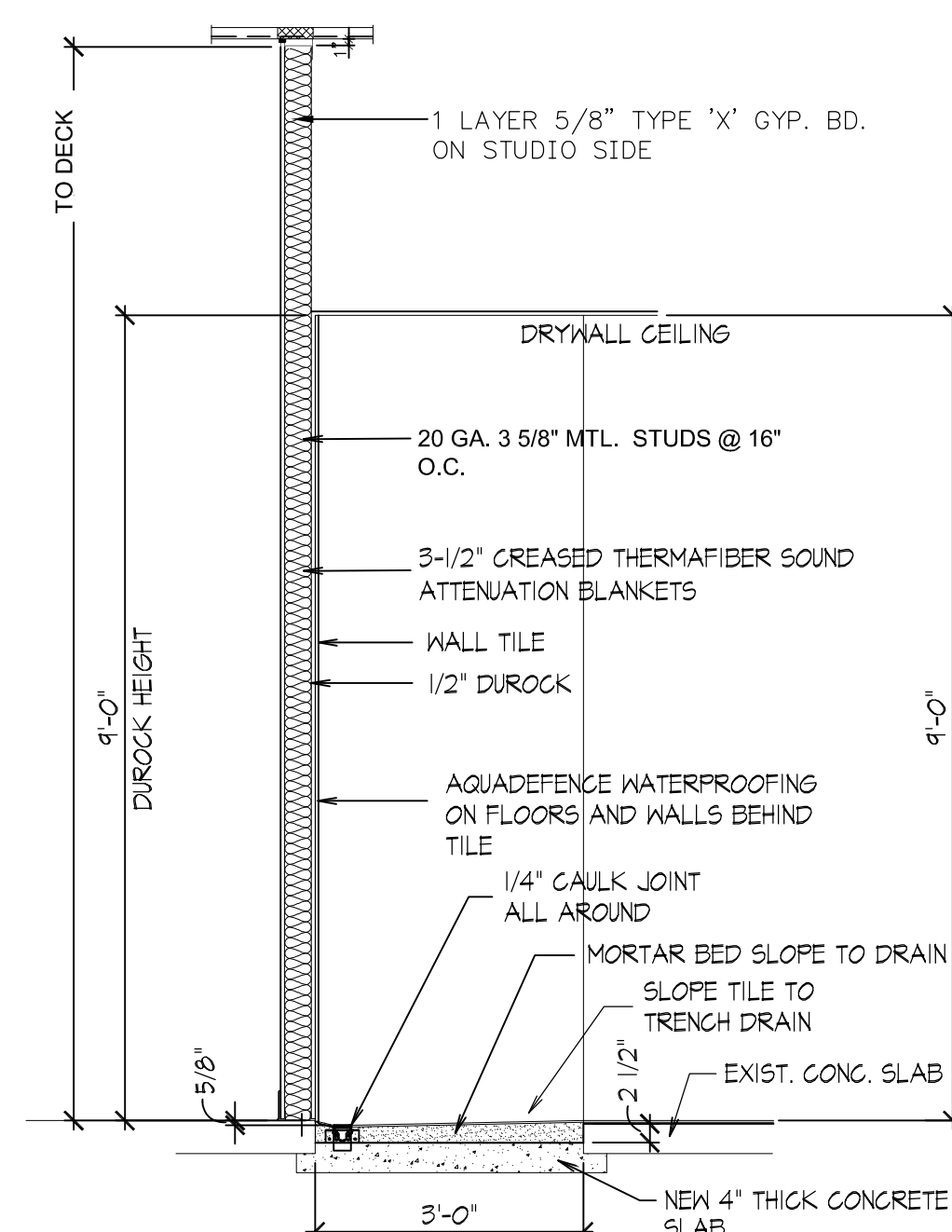
8 WALL TYPE
SCALE : 3/4" = 1'-0"



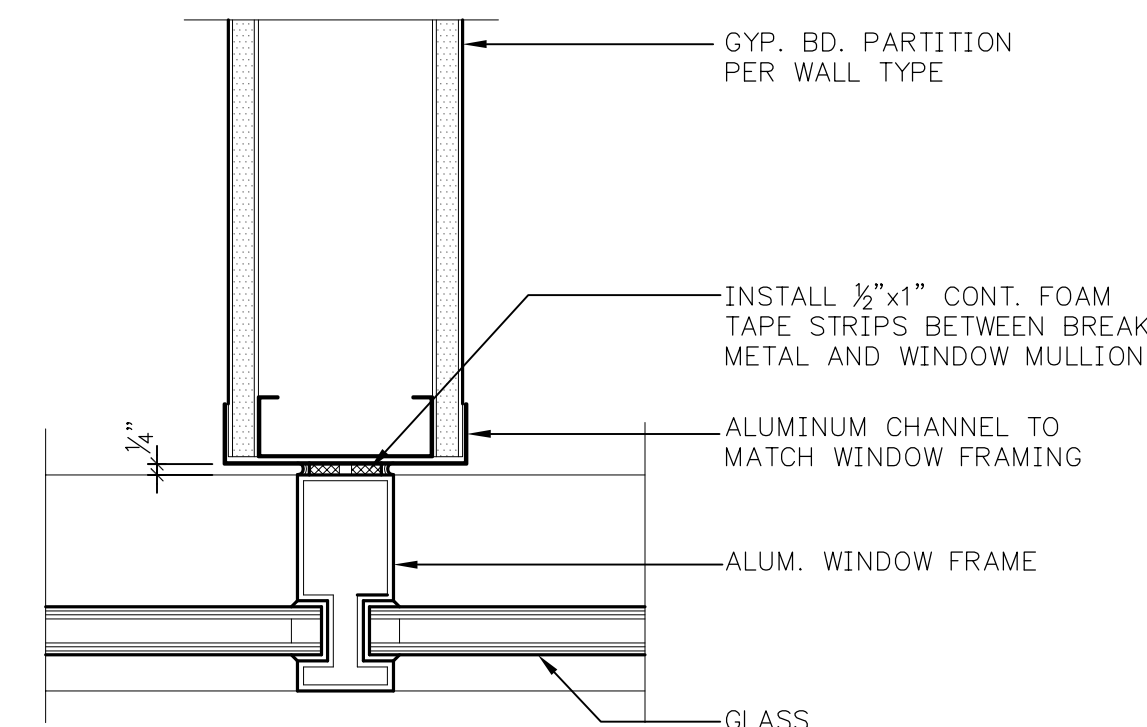
7 WALL TYPE
SCALE : 3/4" = 1'-0"



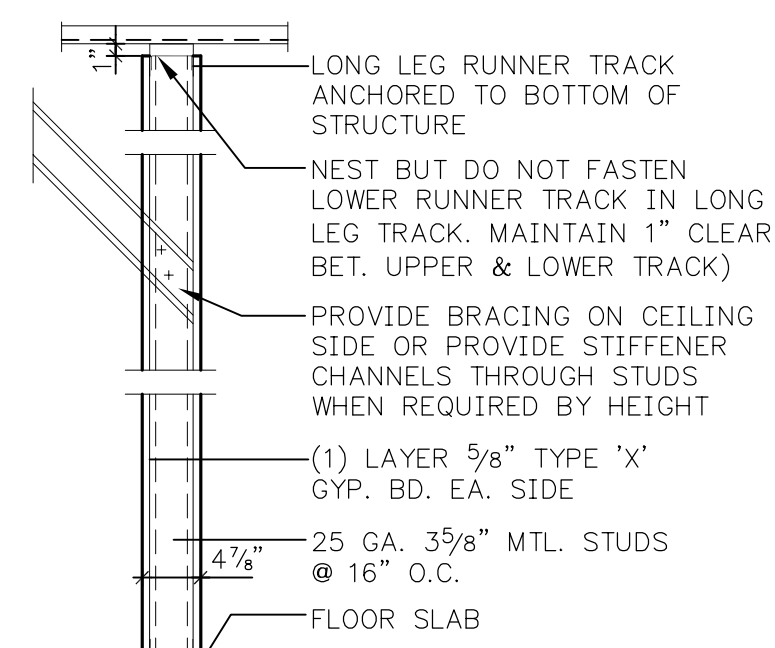
6 WALL TYPE
SCALE : 3/4" = 1'-0"



5 WALL TYPE
SCALE : 3/4" = 1'-0"

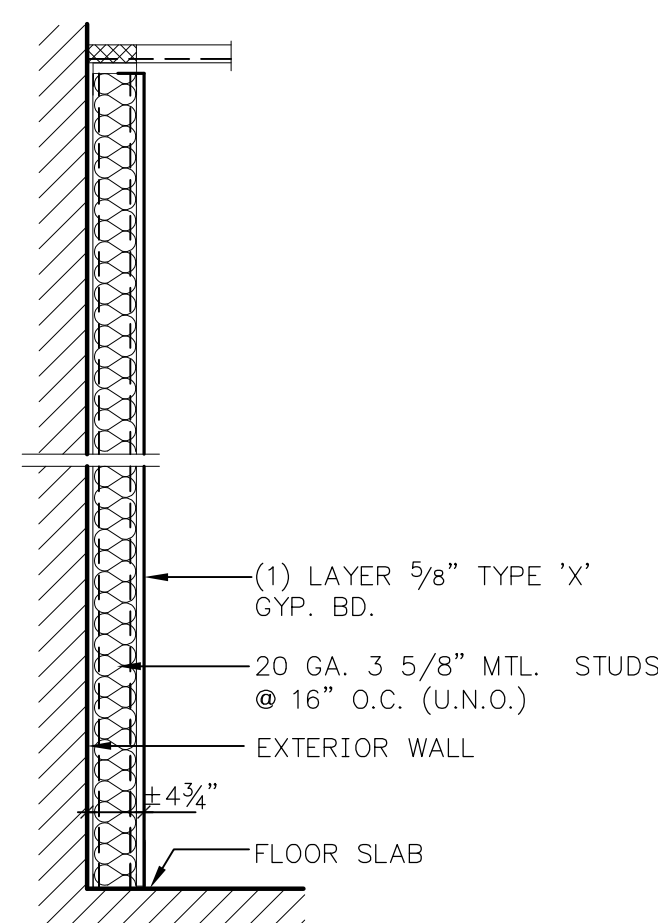


2 WALL TERM. DETAIL



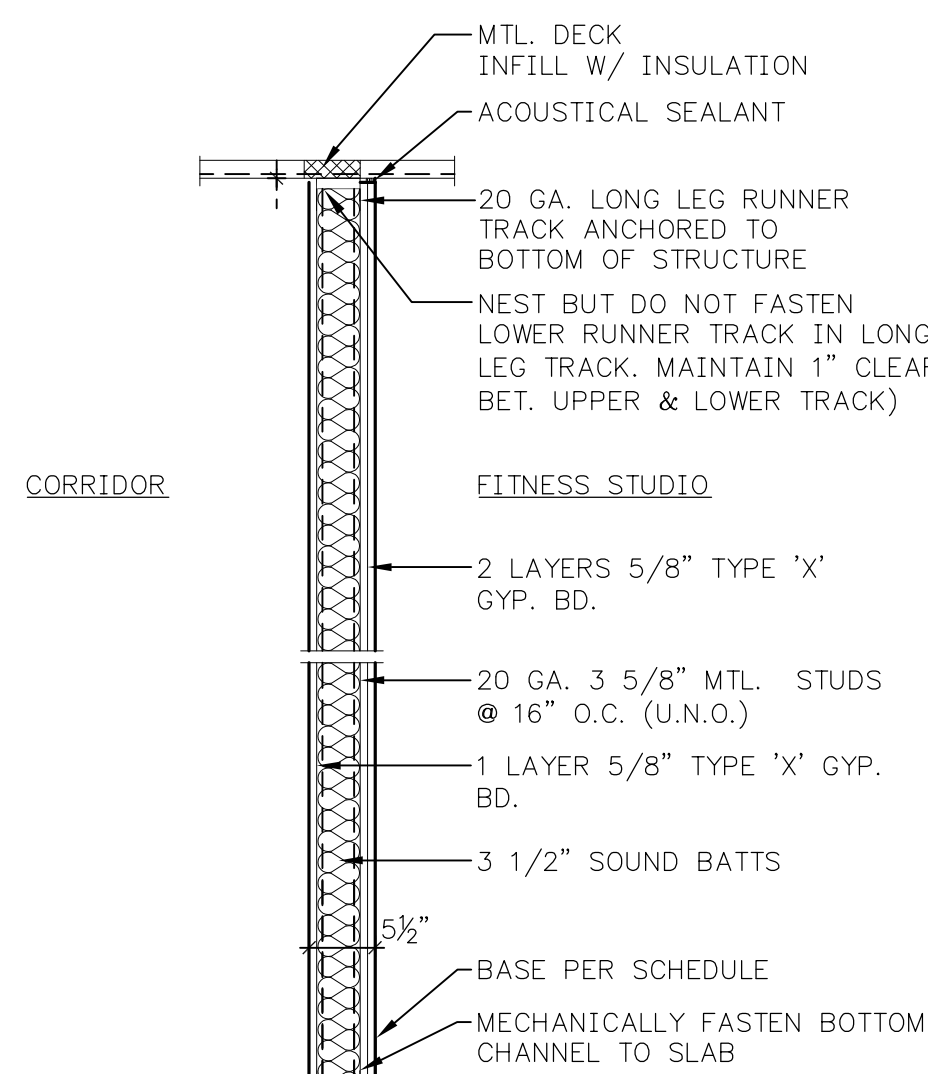
- 4a WALL TO HAVE 3 1/2" BATT INSUL.
- 4b 5/8" MOLD & WATER RESISTANT GYP.
BD. ON "WET ROOM WALLS"
- 4c WALL TO HAVE BOTH INSUL. & MOLD & WATER
RESISTANT GYP. BD. ON "WET ROOM WALLS"

4 WALL TYPE
SCALE : 3/4" = 1'-0"

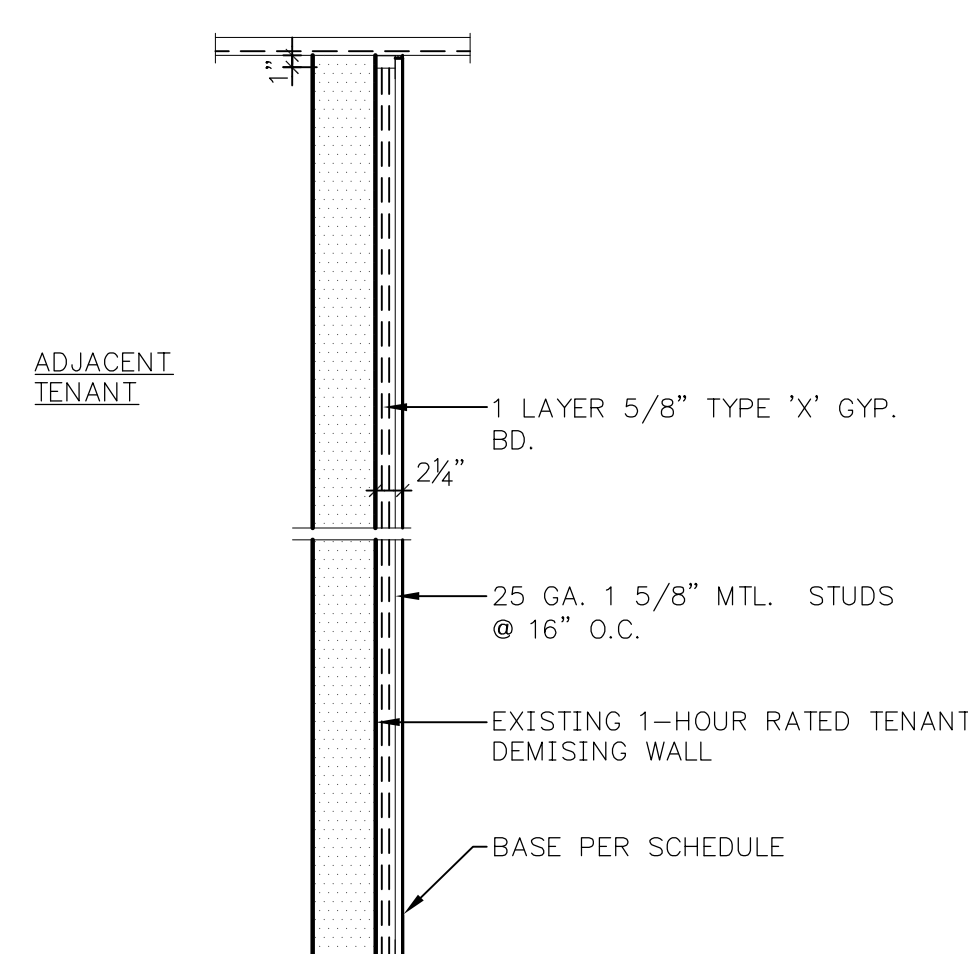


- a** 16 GA. 3 $\frac{5}{8}$ " MTL. STUDS AND TRACK @ 12" O.C. AT WALL ANCHORS
- b** 5/8" MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"
- c** WALL HT. AT 6" ABOVE FIN CLG. & MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"

3 WALL TYPE
SCALE : 3/4" = 1'-0"

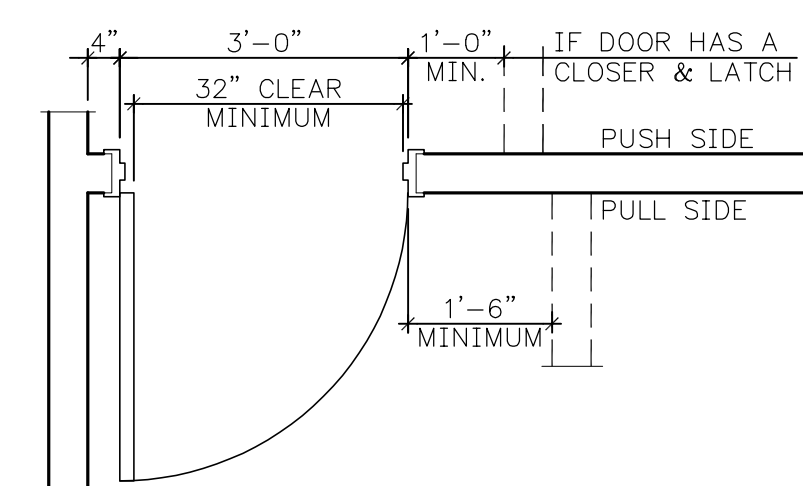


2 WALL TYPE
SCALE : 3/4" = 1'-0"



- a** WALL TO HAVE 3 1/2" SOUND BATT INSUL.
- b** 5/8" MOLD & WATER RESISTANT GYP.
BD. ON "WET ROOM WALLS"
- c** WALL TO HAVE BOTH INSUL. & MOLD & WATER
RESISTANT GYP. BD. ON "WET ROOM WALLS"

1 WALL TYPE
SCALE : 3/4" = 1'-0"

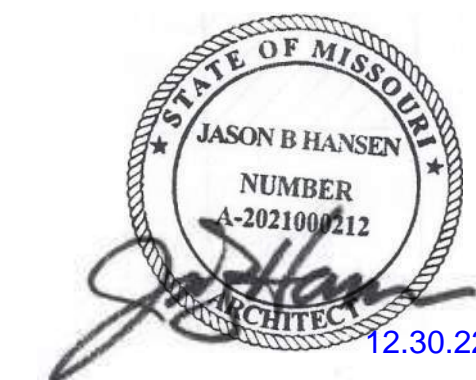


1 TYP. DOOR LOCATION
A100 SCALE : 1/2" = 1'-0"

Tenant Improvements For:

F45 Lee's Summit

Date: 12/30/22
Issued For: PERMIT

[illegible]

PROJECT TEAM

ARCHITECT MOMENTUM
ARCHITECTURE+DESIGN

STRUCTURAL

MECHANICAL 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS



MENTUM
ARCHITECTURE + DESIGN

NO.

KS - MO
Commercial & Residential
913 + 904 - 6734

A1.00

©2022

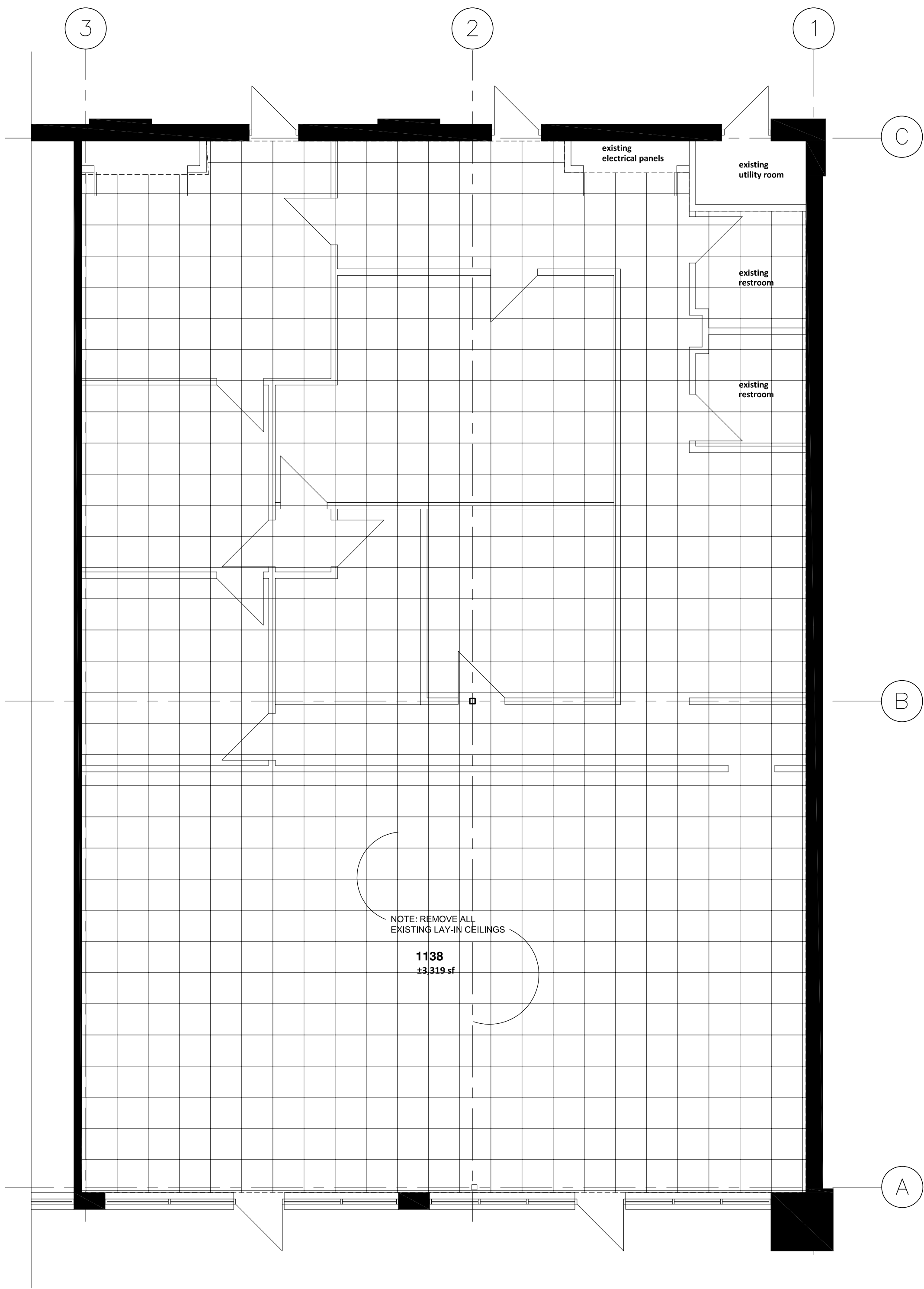
To Be Located At:

1138 NE Douglas Rd.,
Lee's Summit, MO 64086

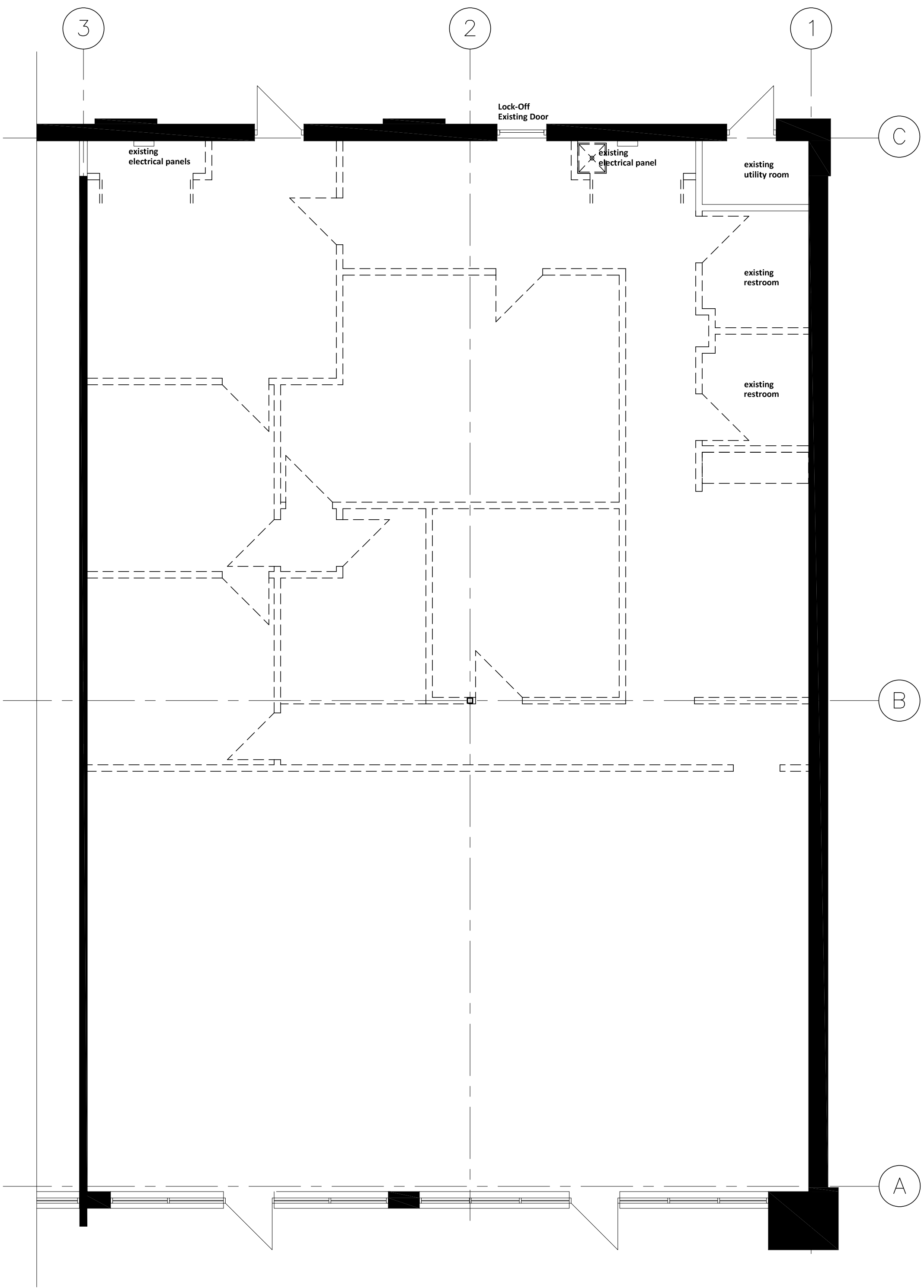
DEMOLITION NOTES:

- 1. DEMO EXIST. MTL. STUD/GYPSUM BD. PARTITIONS, FURRING AND CEILINGS FULLY TO EXTENTS SHOWN.
- 2. REMOVE EXISTING PLUMBING ELEMENTS/FIXTURES. CAP LINES BELOW FLOOR & SALVAGE FIXTURES WHERE POSSIBLE.
- 3. REMOVE ALL EXISTING FLOORING.

- 1 MODIFY EXISTING ROOF DRAIN AS REQUIRED TO BE FULLY ENCLOSED IN NEW WALL CAVITY.
- 2 SALVAGE DRINKING FOUNTAIN FOR REUSE.
- 3 RELOCATE EXISTING ELECTRIC PANELS PER ELECTRICAL DWGS.
- 4 SALVAGE FIRE EXTINGUISHER FOR REUSE. LOCATION TBD.



2 DEMO REFLECTED CEILING PLAN
D1.01 SCALE : 3/16" = 1'-0"



1 DEMO PLAN
D1.01 SCALE : 3/16" = 1'-0"

Tenant Improvements For:

F45 Lee's Summit

Date: 12/30/22
Issued For: PERMIT

REVISIONS		
No.	Date	Description



PROJECT TEAM	
ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
STRUCTURAL	
MECHANICAL	5BYS ENGINEERS
ELECTRICAL	5BYS ENGINEERS
FIRE PROTECTION	
CONTRACTOR	HAWTHORN PROJECTS



KS - MO
Commercial & Residential
913 + 904 - 6734

NO.

D1.01

1. CONTRACTOR TO REVIEW AND VERIFY ELECTRICAL REQUIREMENTS INCLUDING LOCATIONS OF EXISTING AND NEW OUTLETS IDENTIFIED. REF ELECTRICAL PLAN
2. PATCH AND REPAIR ALL HOLES IN EXISTING WALLS TO REMAIN (TYP.)
3. REF. ELEVATIONS FOR EXERCISE EQUIPMENT BLOCKING & MOUNTING NOTES.
4. SHOWER "PAN" TO BE SLOPED TO TRENCH DRAIN PER PLAN. ALL OTHER FLOOR DRAINS (FD) TO BE NON-SLOPED AREA DRAINS.

- 1 LOCK OFF EXISTING DOOR AND REMOVE HARDWARE. INSULATE AND INFILL DOORWAY ON INTERIOR SIDE AS REQUIRED TO MATCH EXISTING WALL THICKNESS.
- 2 GYP. BD. WALL FURRED OUT AS SHOWN TO END OF TURF FLOORING.
- 3 MODIFY WALL TYPE AS REQUIRED TO CLOSELY MATCH WALL TYPE SHOWN ON PLAN.

- (A) WALL-MOUNTED FANS, TYP. OF 5 (REF SPECIFICATIONS)
- (B) WASHER (OWNER PROVIDED – CONTRACTOR INSTALLED)
- (C) DRYER (OWNER PROVIDED – CONTRACTOR INSTALLED)
- (D) MEMBER BENCH (OWNER PROVIDED)
- (E) LOCKERS (OWNER PROVIDED)
- (F) CHECK-IN DESK (OWNER PROVIDED – CONTRACTOR INSTALLED)
- (G) FREESTANDING DRINKS REFRIGERATOR (REF SPECIFICATIONS)
- (H) OFFICE DESKTOP (OWNER PROVIDED – CONTRACTOR INSTALLED)

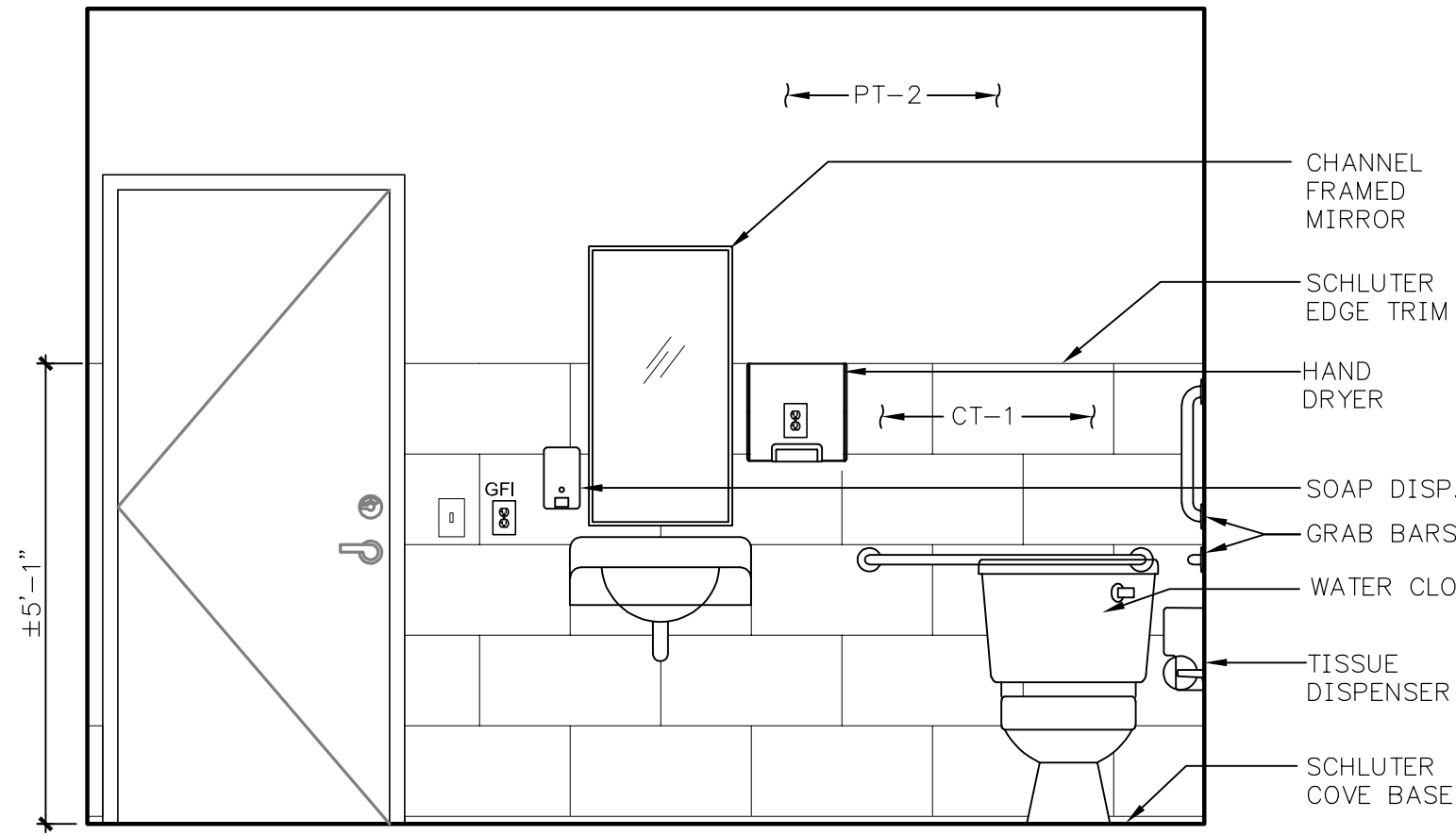
(SEE COMPLETE SPECIFICATIONS ON SHEET A11.01)

[illegible]

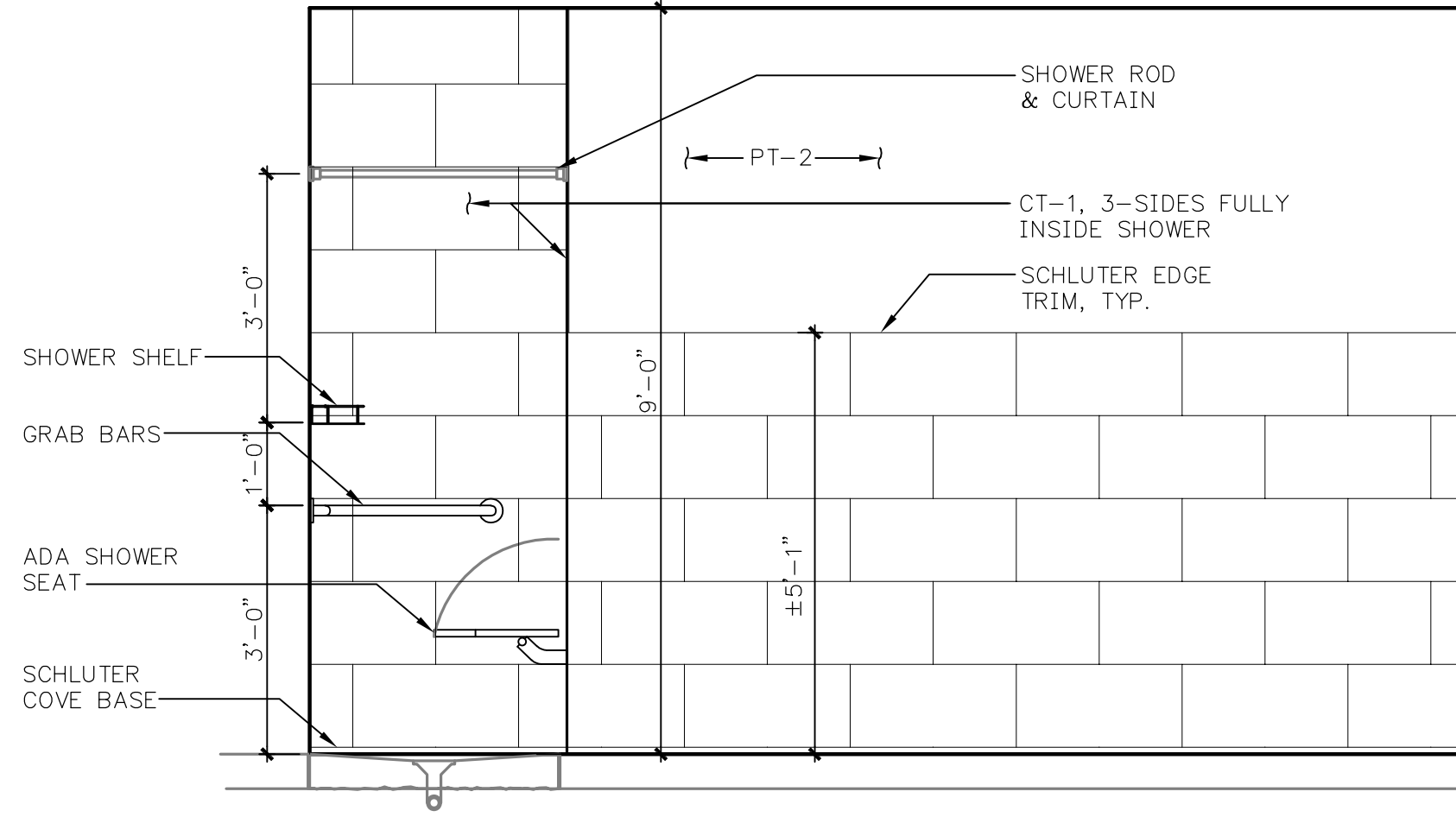
SCALE : $1/4" = 1'-0"$

©2022

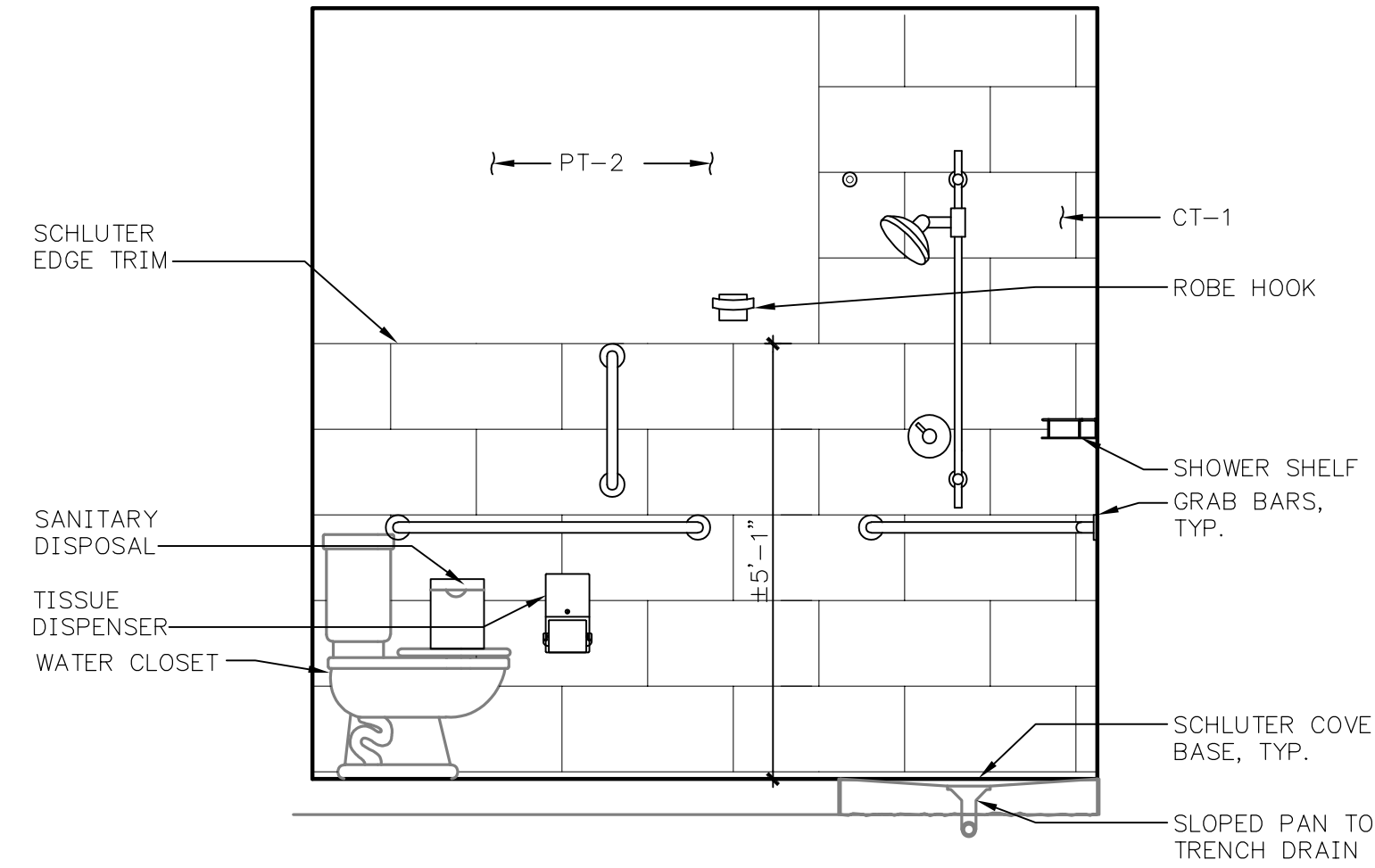
1138 NE Douglas Rd.,
Lee's Summit, MO 64086



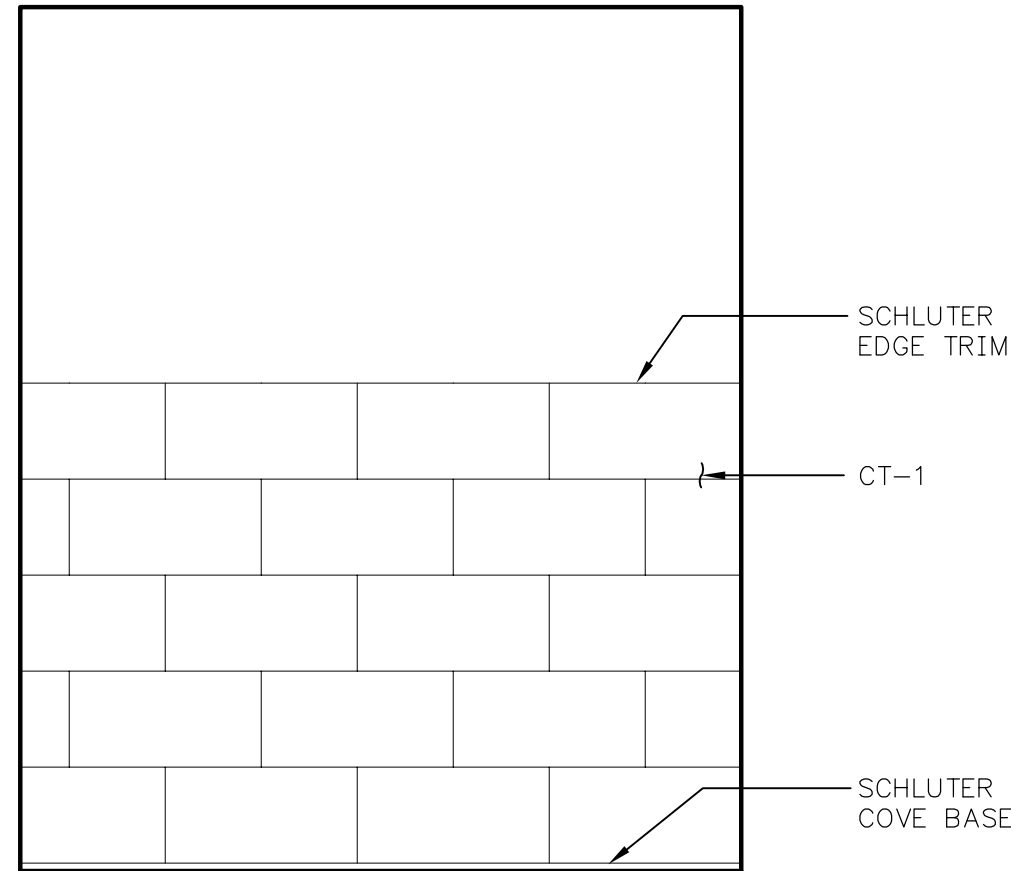
9 TOILET ELEVATION
A2.01 SCALE : 1/2" = 1'-0"



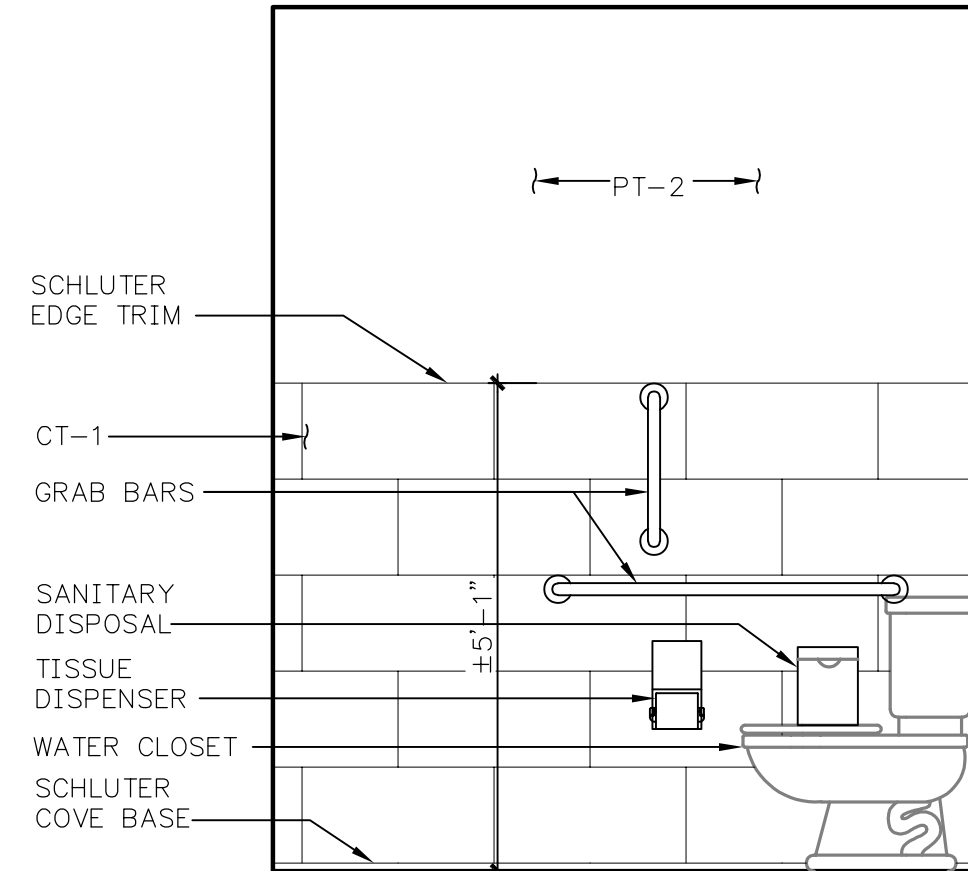
8 TOILET ELEVATION
A2.01 SCALE : 1/2" = 1'-0"



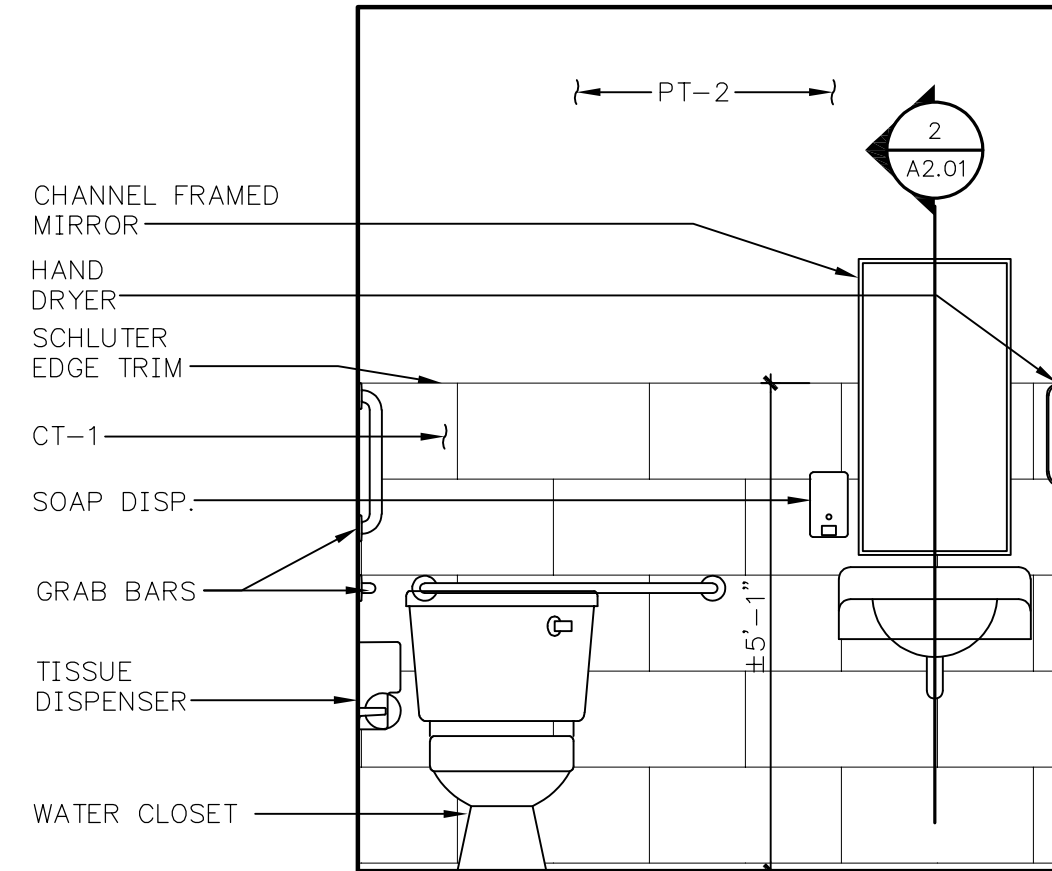
7 TOILET ELEVATION
A2.01 SCALE : 1/2" = 1'-0"



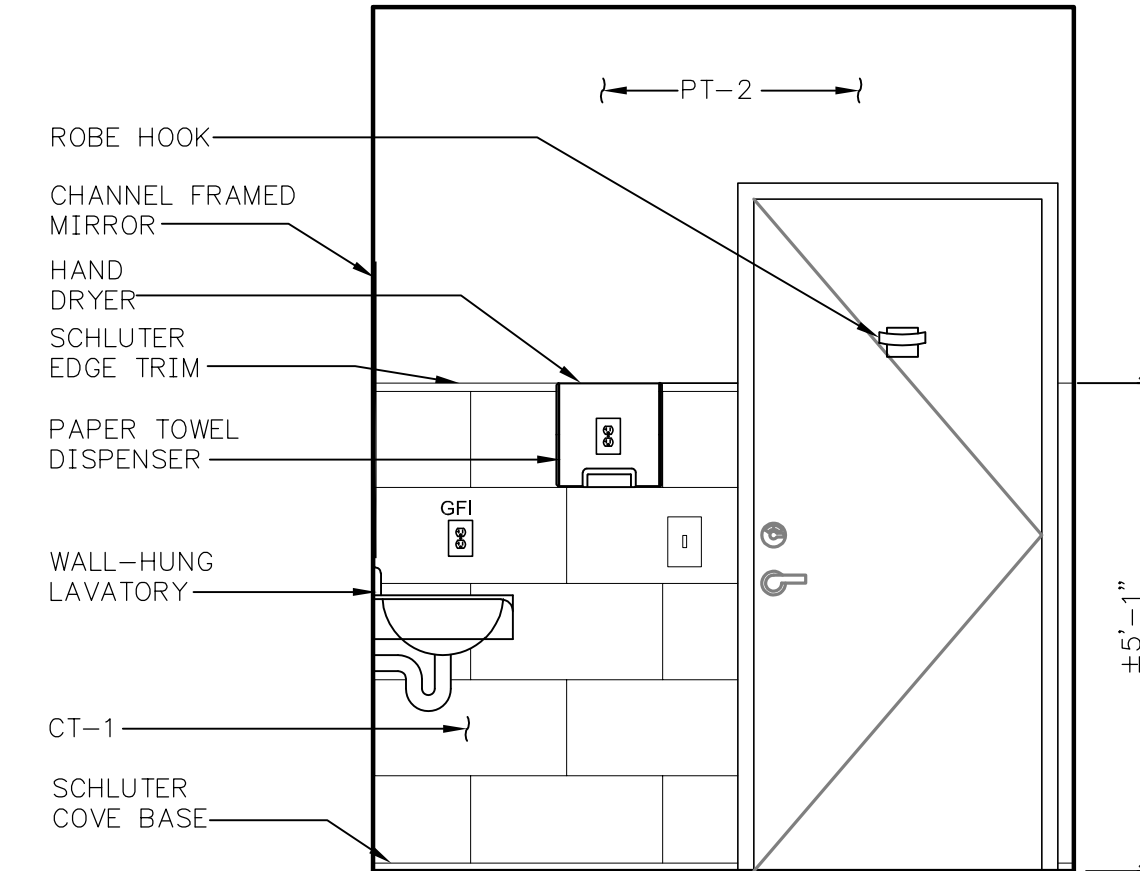
6 TOILET ELEVATION
A2.01 SCALE : 1/2" = 1'-0"



5 TOILET ELEVATION
A2.01 SCALE : 1/2" = 1'-0"

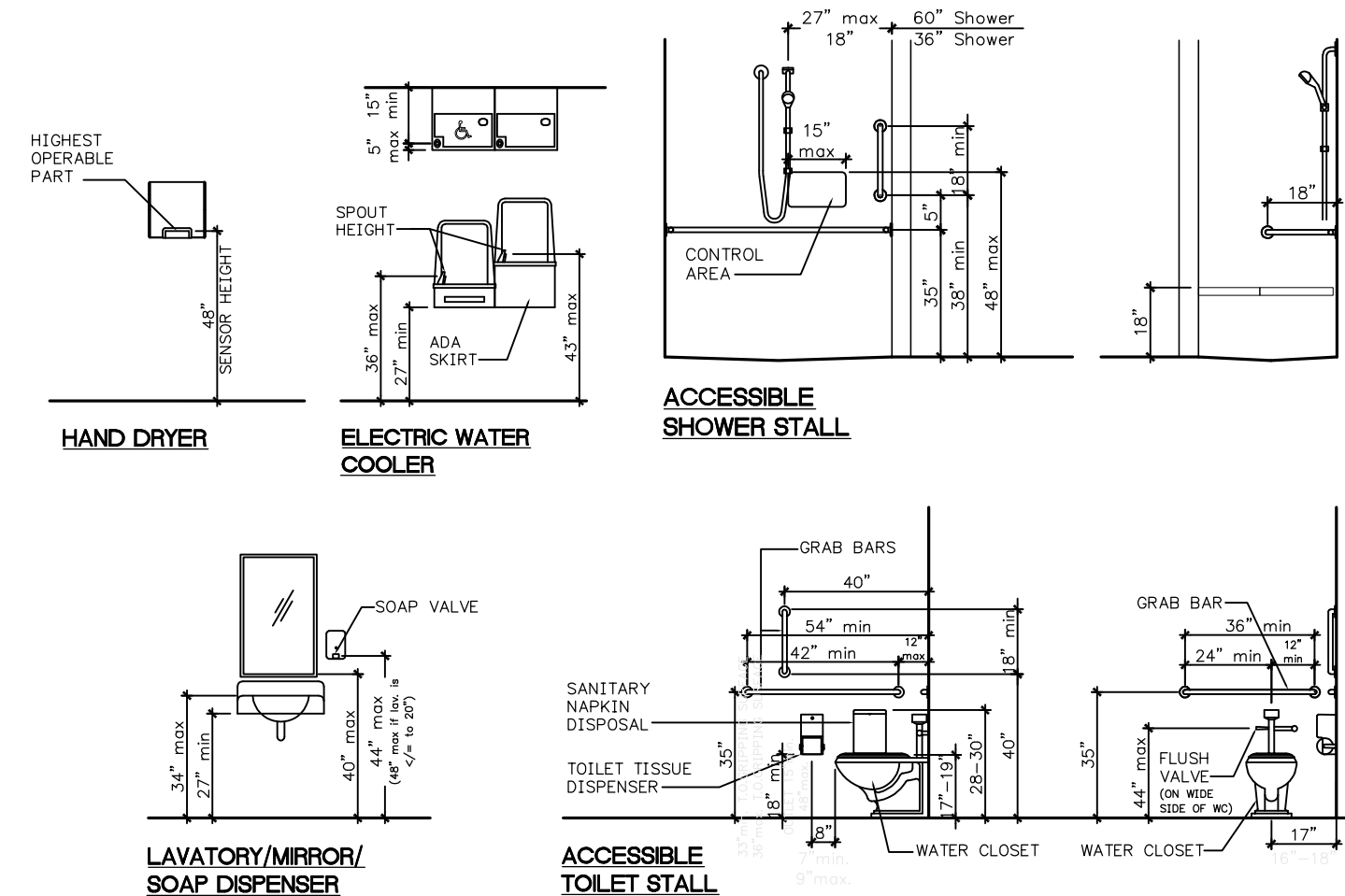


4 TOILET ELEVATION
A2.01 SCALE : 1/2" = 1'-0"



3 TOILET ELEVATION
A2.01 SCALE : 1/2" = 1'-0"

TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS



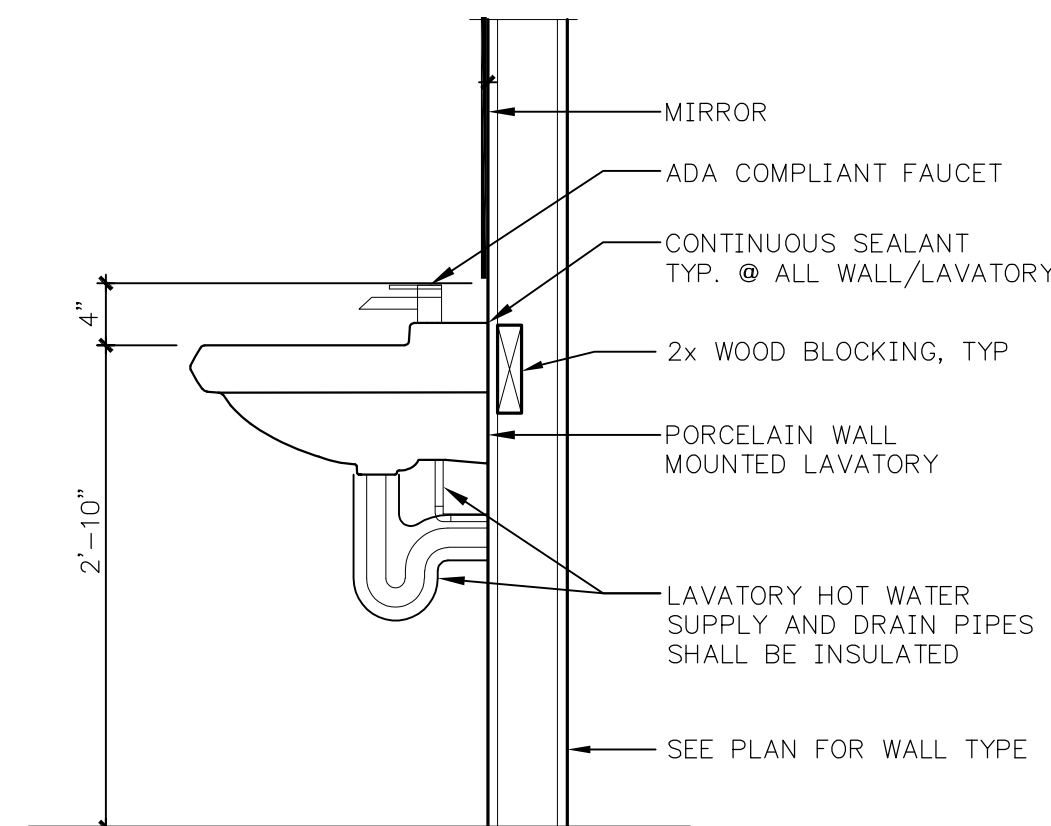
TOILET ACCESSORY LEGEND

ALL ACCESSORIES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
ALL ACCESSORIES SHALL BE DESIGNED TO MEET ADA STANDARDS.

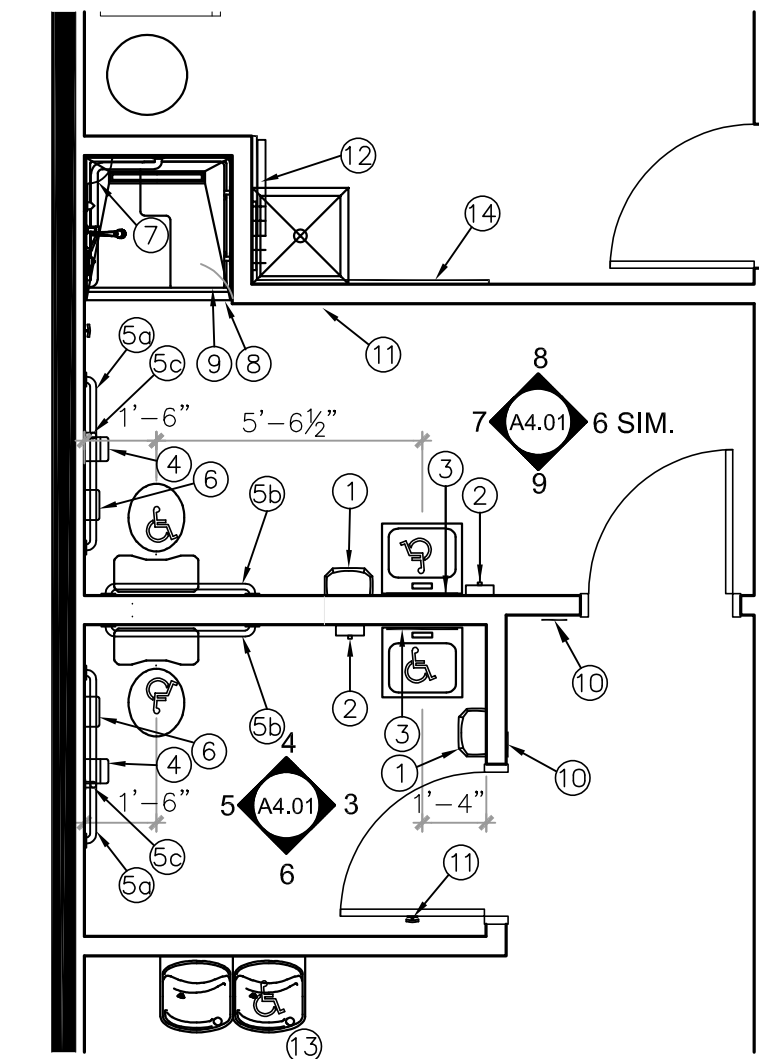
- HAND DRYER, ELECTRIC (REF SPECS.)
- LIQUID SOAP DISPENSER - SURFACE (MANUAL: BOBRICK B-2111)
- FRAMED MIRROR (BOBRICK B-165, SIZE: 18" x 36")
- MULTI-ROLL TOILET TISSUE DISPENSER (BOBRICK B-4288)
- GRAB BARS 42" (BOBRICK B-6806 SERIES)
- GRAB BARS 36" (BOBRICK B-6806 SERIES)
- GRAB BARS 18" (BOBRICK B-6806 SERIES)
- SANITARY NAPKIN DISPOSAL (SURFACE: BOBRICK B-270)
- SHOWER SHELF (GATCO #1455)
- SHOWER CURTAIN & ROD (SURFACE: BOBRICK B-6047 B-204)
- SHOWER ADA SEAT (SURFACE: BOBRICK B-5181)
- ADA SIGNAGE (REF SIGNAGE NOTES, A001)
- ROBE HOOK (BOBRICK B-6717/B-6727)
- MOP RACK (BOBRICK B-223)
- DRINKING FOUNTAIN (ELKAY #EXSTLWS-SS)
- FIBERGLASS REINFORCED PANEL (WHITE, ONE 4'x8' SHEET)

Maximum Reach Depth	.05 inch	2 inches	5 inches	6 inches	9 inches	11 inches
Maximum Reach Height	48 inches	46 inches	42 inches	40 inches	36 inches	34 inches

TABLE 603.6 - ANSI-117.1-2009



2 VANITY DETAIL
A2.01 SCALE : 1" = 1'-0"



1 ENLARGED PLAN
A2.01 SCALE : 1/4" = 1'-0"

Tenant Improvements For:

Date: 12/30/22
Issued For: PERMIT

REVISIONS

No.	Date	Description



PROJECT TEAM

ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
STRUCTURAL	
MECHANICAL	5BYS ENGINEERS
ELECTRICAL	5BYS ENGINEERS
FIRE PROTECTION	
CONTRACTOR	HAWTHORN PROJECTS

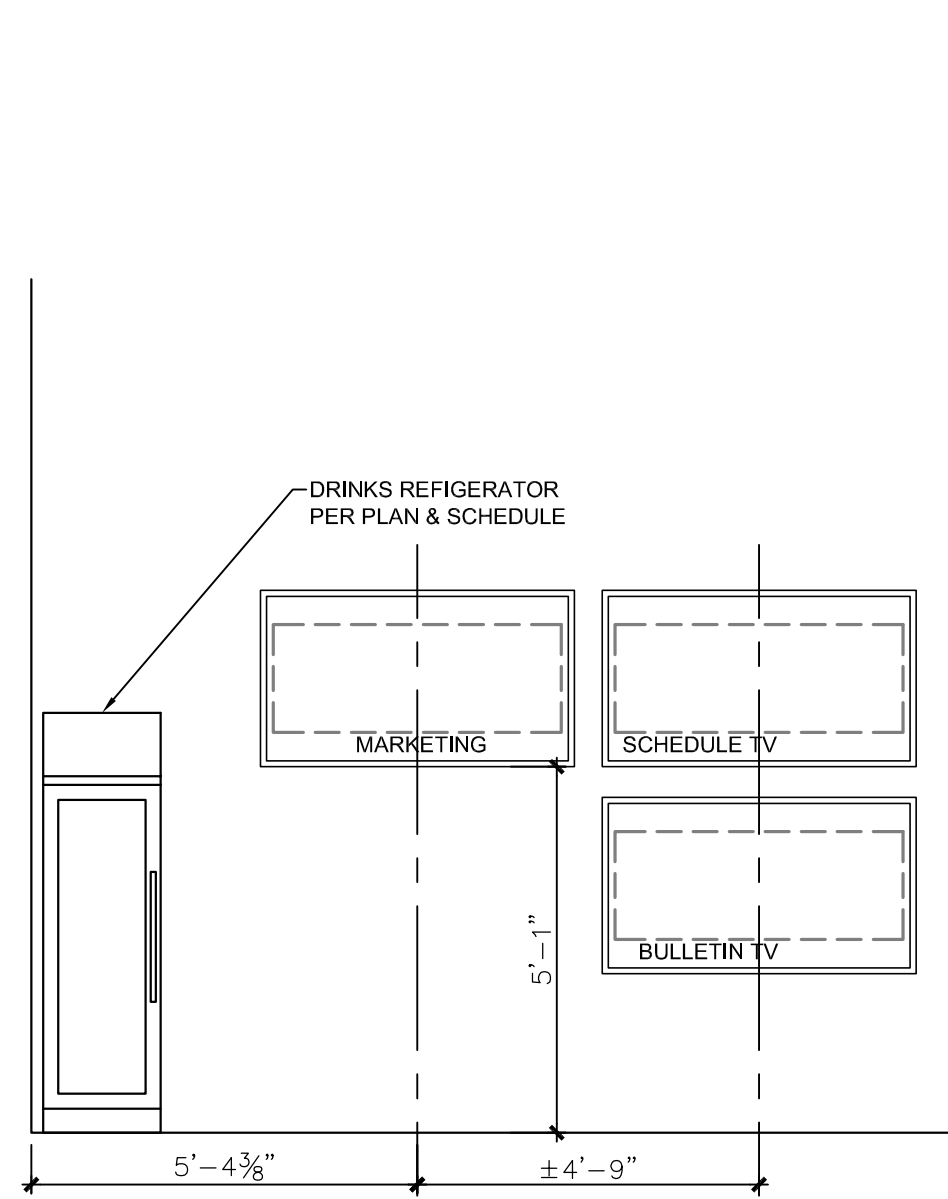


NO.

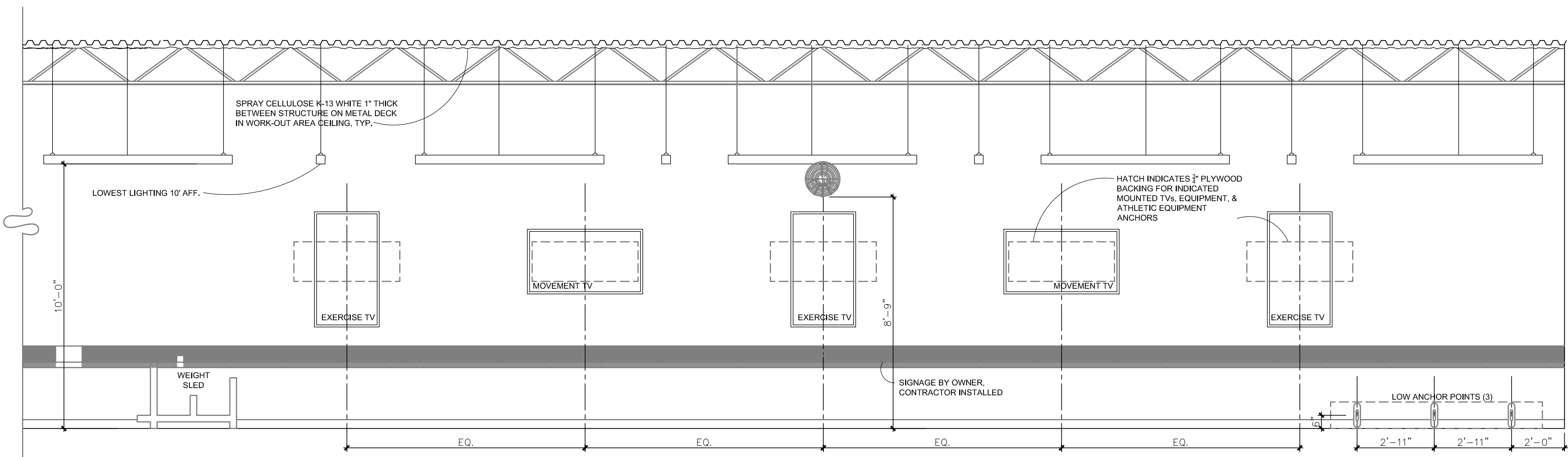
A2.01

To Be Located At:
1138 NE Douglas Rd.,
Lee's Summit, MO 64086

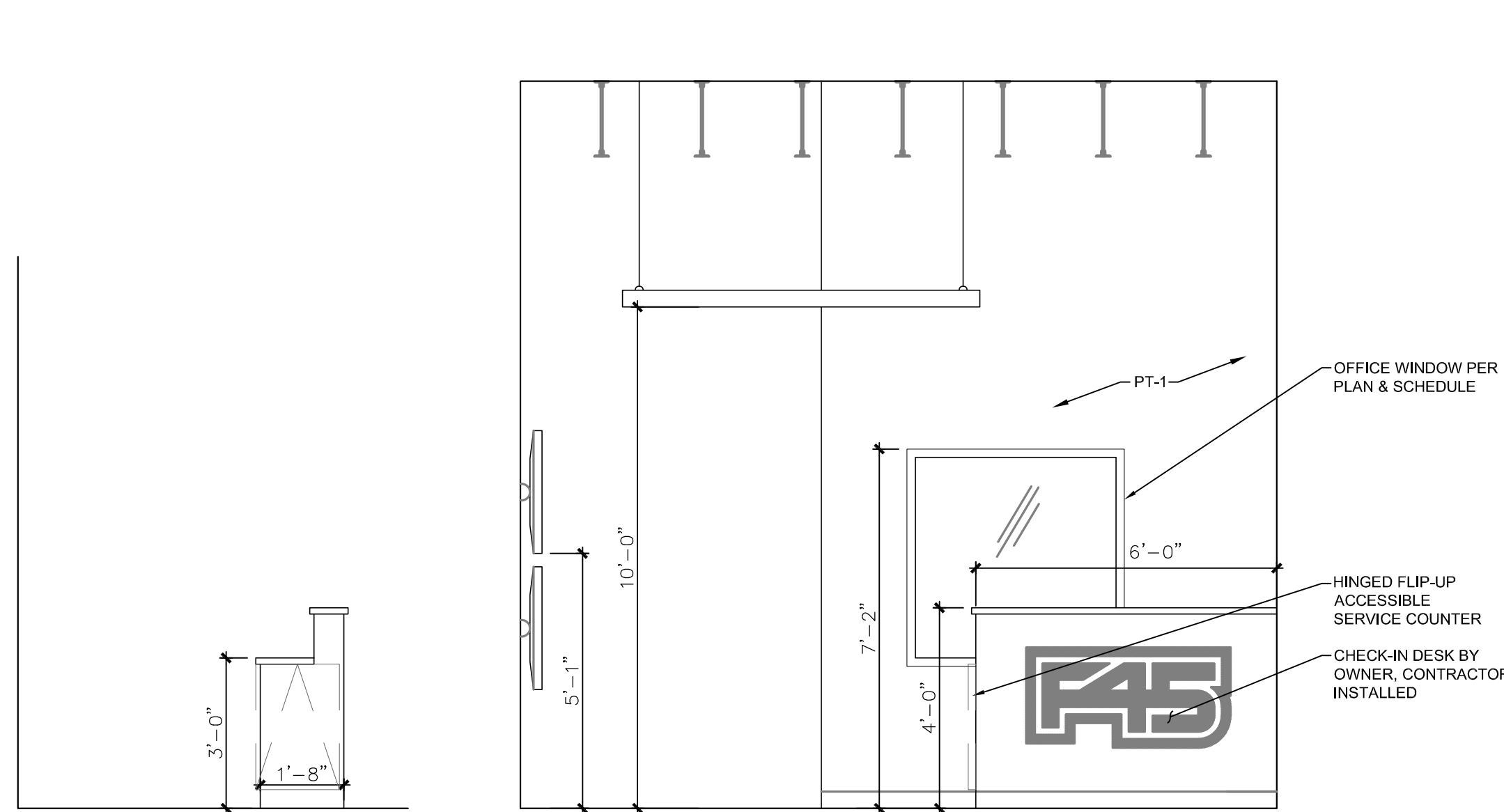
F45
Lee's Summit



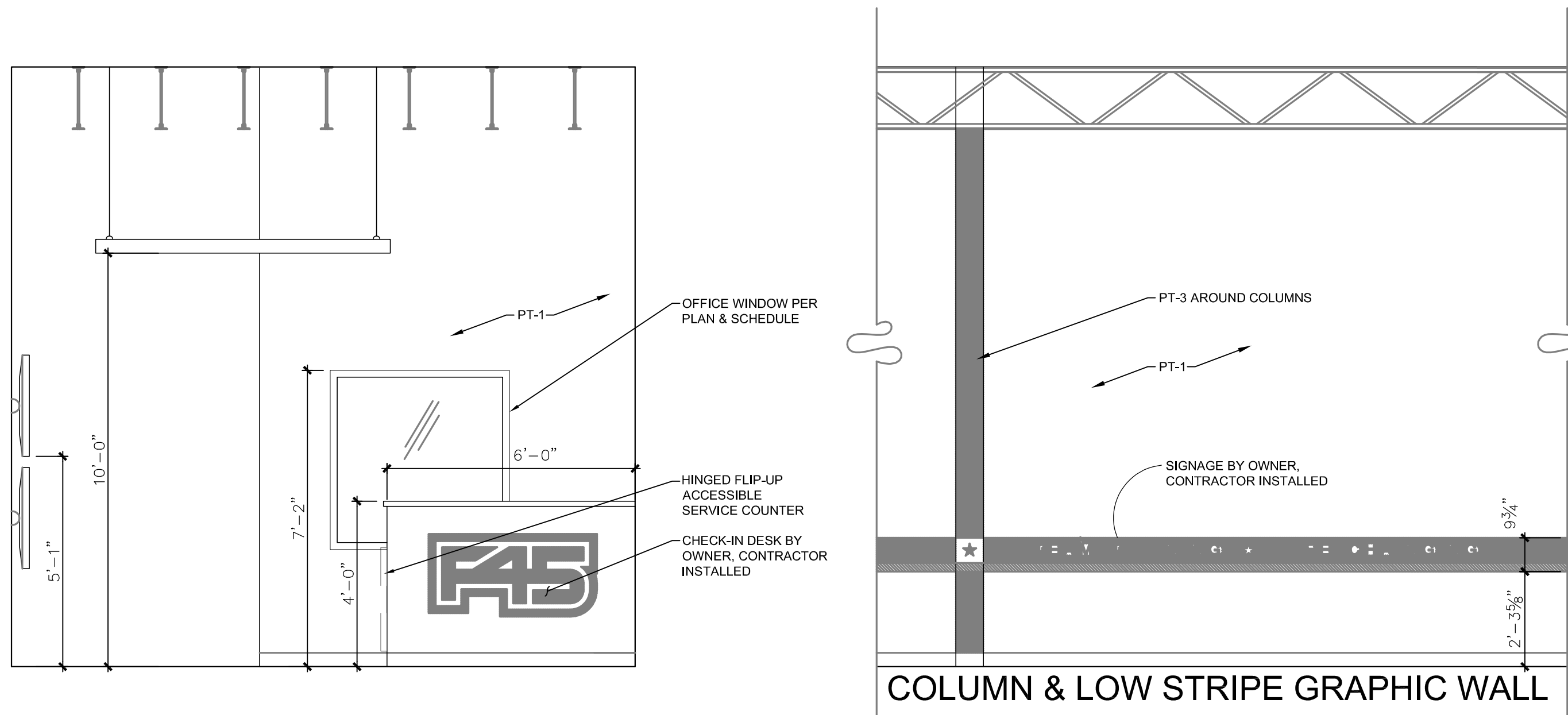
7 INTERIOR ELEVATION
A4.01 SCALE : 3/8" = 1'-0"



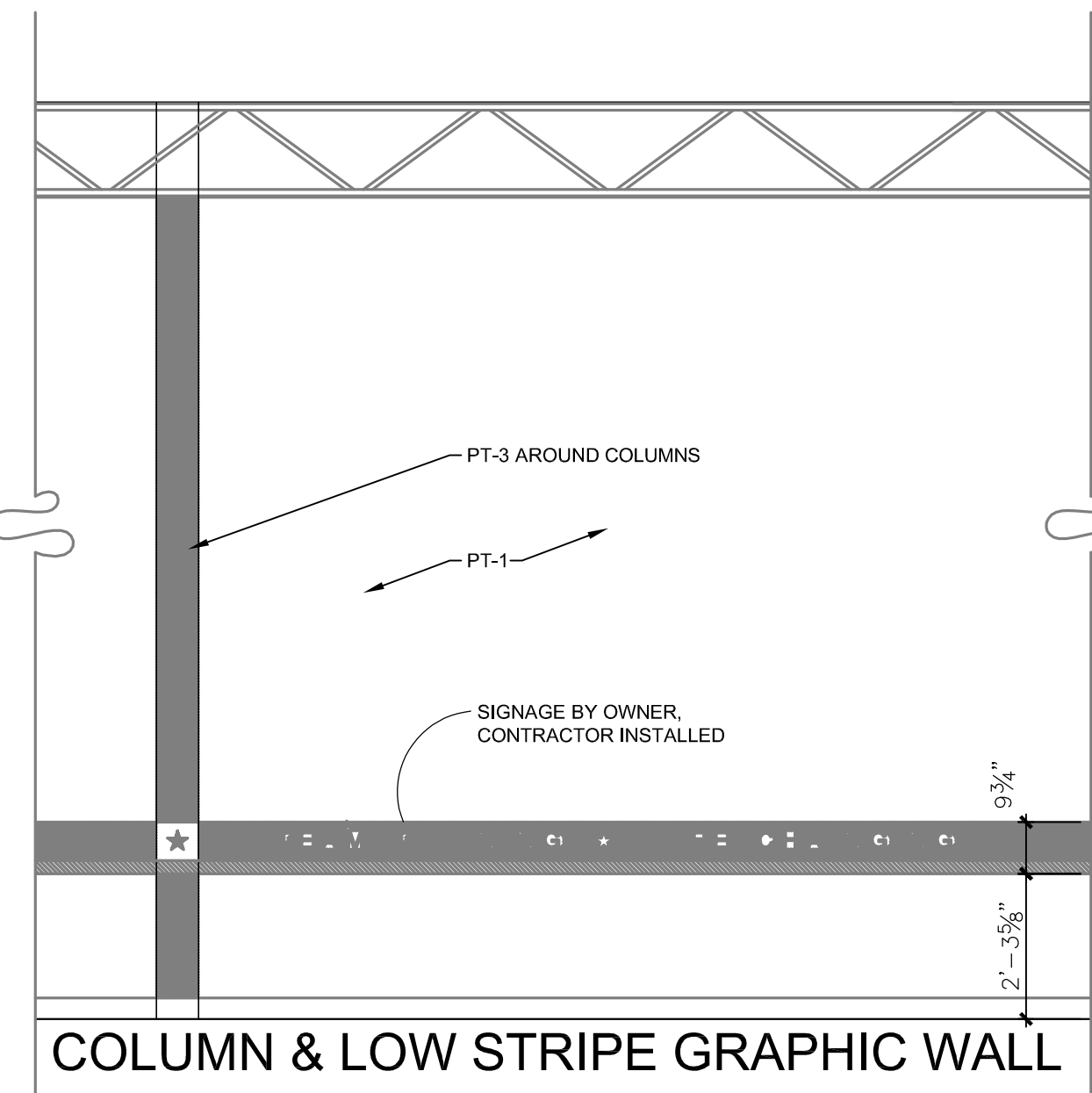
6 INTERIOR ELEVATION
A4.01 SCALE : 3/8" = 1'-0"



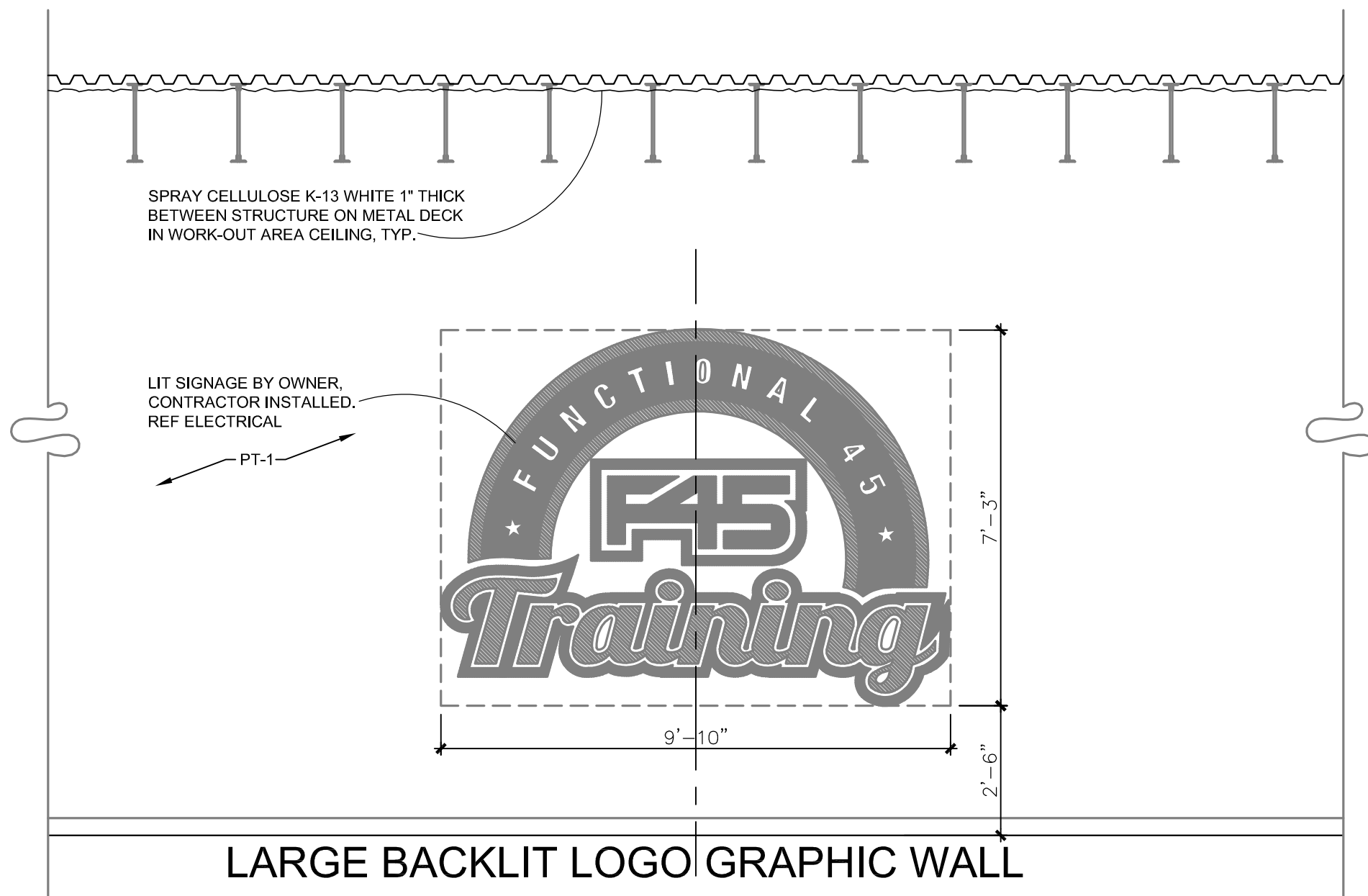
5 INTERIOR ELEVATION
A4.01 SCALE : 3/8" = 1'-0"



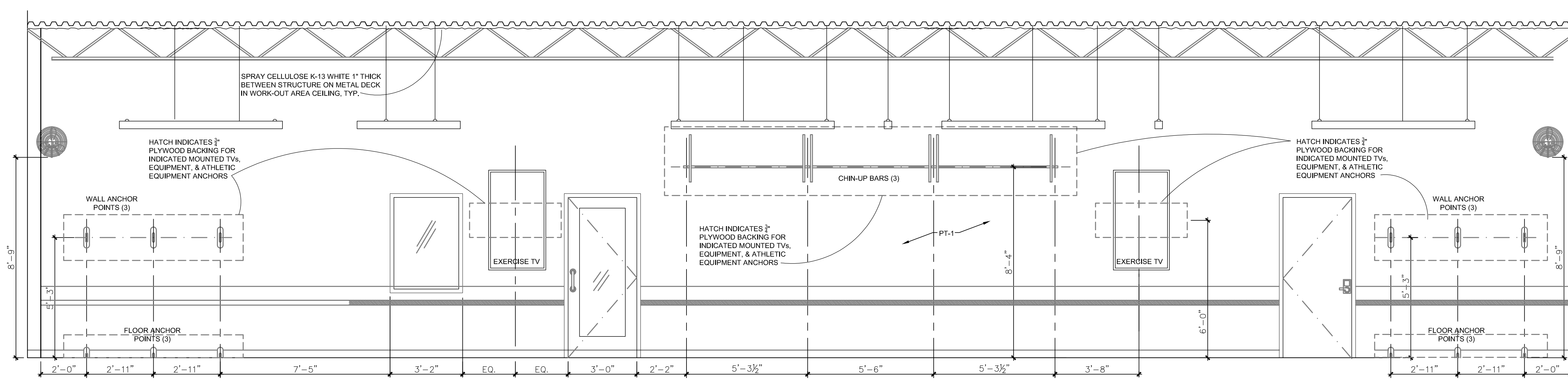
4 INTERIOR ELEVATION
A4.01 SCALE : 3/8" = 1'-0"



3 INTERIOR ELEVATION
A4.01 SCALE : 3/8" = 1'-0"



2 INTERIOR ELEVATION
A4.01 SCALE : 3/8" = 1'-0"

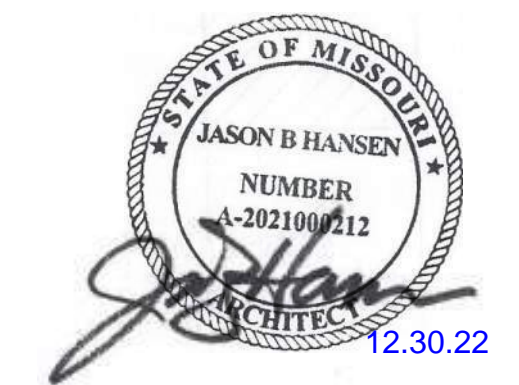


1 INTERIOR ELEVATION
A4.01 SCALE : 3/8" = 1'-0"

Tenant Improvements For:

Date: 12/30/22
Issued For: PERMIT

REVISIONS		
No.	Date	Description



PROJECT TEAM	
ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
STRUCTURAL	
MECHANICAL	58Y5 ENGINEERS
ELECTRICAL	58Y5 ENGINEERS
FIRE PROTECTION	
CONTRACTOR	HAWTHORN PROJECTS



NO.

A4.01

ROOM FINISH SCHEDULE													DOOR AND FRAME SCHEDULE														
ROOM		FLR.	BASE				WALLS				CEILING		REMARKS	DOOR / WINDOW				FRAME		RATING	DETAILS			HARDWARE	REMARKS		
			N	E	S	W	N	E	S	W	MAT.	HT.		NO.	SIZE (WxHxTh)	TYPE	MAT.	TYPE	MAT.		JAMB	HEAD	SILL				
100	CHECK-IN	LVT	RB-1	RB-1	RB-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-4	E		100.A	3'-0"x7'-0" (F.V.)	E	-	-	-	-	-	-	-	E	1)		
101	OFFICE	LVT	RB-1	RB-1	RB-1	RB-1	PT-1	PT-1	PT-1	PT-1	SAT-1	9-0		101.A	3'-0"x7'-0"x1 3/4"	W1	WD	1	HM	-	-	-	-	LA.1	-		
102	MEMBER LOBBY	LVT	RB-1	RB-1	RB-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-4	E		102.A	3'-0"x7'-0"x1 3/4"	W2	WD	1	HM	-	-	-	-	PP.1	-		
103	UNIXEX 1	CT-2	CT-S	CT-S	CT-S	CT-S	PT-2 CT-1	PT-2 CT-1	PT-2 CT-1	PT-2 CT-1	GB	9-0		A	4'-4"x4'-4" (WINDOW)	-	-	2	HM	-	-	-	-	-	-		
104	UNIXEX 2	CT-2	CT-S	CT-S	CT-S	CT-S	PT-2 CT-1	PT-2 CT-1	PT-2 CT-1	PT-2 CT-1	GB	9-0		B	3'-2"x4'-4" (WINDOW)	-	-	3	HM	-	-	-	-	-	2)		
105	UTILITY	SC	RB-1	RB-1	RB-1	RB-1	PT-1	PT-1	PT-1	PT-1	E	-		C	2'-4"x4'-4" (WINDOW)	-	-	4	HM	-	-	-	-	-	-		
106	STORAGE		NOT IN SCOPE - REFERENCE ONLY											103.A	3'-0"x7'-0"x1 3/4"	W1	WD	1	HM	-	-	-	-	LA.3	-		
107	FITNESS STUDIO	RT/TF	RB-1	RB-1	RB-1	RB-1	PT-1	PT-1	PT-1	PT-1	KP	-	1)	104.A	3'-0"x7'-0"x1 3/4"	W1	WD	1	HM	-	-	-	-	LA.3	-		
														105.A	3'-0"x7'-0"x1 3/4"	W1	WD	1	HM	-	-	-	-	LK.2	-		
														105.B	3'-0"x7'-0"x1 3/4"	E	-	-	-	-	-	-	-	E	1)		
														106.A	3'-0"x7'-0"x1 3/4"	NOT IN SCOPE - REFERENCE ONLY											
														107.A	3'-0"x7'-0" (F.V.)	E	-	-	-	-	-	-	-	E	1)		

[illegible]

FLOOR FINISHES

REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH

CT:	(CERAMIC TILE W/ 3/8" MAX. GROUT JOINTS SEALED W/ SILICONE SEALER) PROVIDE CRACK BRIDGING MEMBRANE OVER ALL CONTROL JOINTS AND COLD JOINT IN SLAB
CT-1:	MFR: DALTILE, STYLE/COLOR: MUSEO, BLOCK GREY MIX MU37, SIZE:12"x24", PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD
CT-2:	MFR: DALTILE, STYLE/COLOR: MUSEO NATURAL GREY, SIZE:12"x24" MU32, PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD
CT-3:	MFR: DALTILE, STYLE/COLOR: MUSEO ABSTRACT MOSAIC, SIZE:2"x3" MU32, PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD
LVT:	(LUXURY VINYL TILE)
LVT:	MFR: NEXT FLOOR, SERIES:"PATINA", COLOR:419015 ANTIQUE BRASS, SIZE: 18"x24"; INSTALLATION PATTERN: PER MFR
RT:	(RUBBER SPORT FLOOR TILE)
RT:	MFR: PROVIDED BY OWNER; INSTALLATION: BRICK PATTERN, GLUE DOWN AT EDGES
TF:	(SYNTHETIC TURF)
TF:	MFR: PROVIDED BY OWNER COLOR: BLUE; INSTALLATION: PER MANUFACTURER
SC:	(EXPOSED SEALED CONCRETE POLISHED AND FINISHED W/ CURE-N-SEAL)
E:	EXISTING TO REMAIN

FLOOR FINISHES		REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH
CT:	(CERAMIC TILE W/ 1/8" MAX. GROUT JOINTS SEALED W/ SILICONE SEALER) PERFORM CRACK BRIDGING MEMBRANE OVER ALL CONTROL JOINTS AND COLD JOINT IN SLAB CT-1: MFR: DALTILE, STYLE/COLOR: MUSEO, BLOCK GREY MIX MU37, SIZE:12"x24", PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD CT-2: MFR: DALTILE, STYLE/COLOR: MUSEO NATURAL GREY, SIZE:12"x24" MU32, PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD CT-3: MFR: DALTILE, STYLE/COLOR: MUSEO ABSTRACT MOSAIC, SIZE:2"x3" MU32, PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD	
LVT:	(LUXURY VINYL TILE) LVT: MFR: NEXT FLOOR, SERIES:"PATINA", COLOR:419015 ANTIQUE BRASS, SIZE: 18"x24"; INSTALLATION PATTERN: PER MFR	
RT:	(RUBBER SPORT FLOOR TILE) RT: MFR: PROVIDED BY OWNER; INSTALLATION: BRICK PATTERN, GLUE DOWN AT EDGES	
TF:	(SYNTHETIC TURF) TF: MFR: PROVIDED BY OWNER; COLOR: BLUE; INSTALLATION: PER MANUFACTURER	
SC:	(EXPOSED SEALED CONCRETE POLISHED AND FINISHED W/ CURE-N-SEAL)	
E:	EXISTING TO REMAIN	

BASE FINISHES REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH

RB: (VULCANIZED RUBBER WALL BASE)
RB-1: SIZE: 4", STYLE: COVE; MFR: ROPPE; 100, COLOR: BLACK

CT-S: CT-1 WALL TILE ON SCHLUTER DILEX HKW (COVE - GREY)

WALL FINISHES		REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH
PT:	SATIN FINISH ACRYLIC LATEX PAINT OVER GYPSUM WALLBOARD; 2 COATS OVER MFR'S SUGGESTED PRIMER. SEMI-GLOSS FINISH AT "WELL" AND HIGH USE AREAS - REF FIN. NOTES	
PT-1:	MFR:	SHERWIN WILLIAMS, SHEEN: EGGSHELL, COLOR: SW7005 "PURE WHITE"
PT-2:	MFR:	SHERWIN WILLIAMS, SHEEN: SEMI-GLOSS, COLOR: SW7005 "PURE WHITE"
PT-3:	MFR:	SHERWIN WILLIAMS, SHEEN: SEMI-GLOSS, COLOR: SW6545 "MAJESTIC PURPLE"
PT-4:	MFR:	SHERWIN WILLIAMS, DRY FOG WHITE FLAT
FRP:	FIBERGLASS REINFORCED PLASTIC WALL PANELS W/ STANDARD BATTENS, EDGE AND CORNER TRIM (MFR: TBD, COLOR: WHITE)	
EXT:	EXISTING TO REMAIN	

CEILING FINISHES REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH

SAT: SUSPENDED ACOUSTICAL TILE CEILING

SAT-1: SIZE: 24"x48", MFR: ARMSTRONG, STYLE: CORTEGA SECOND LOOK SCORED 24"x24", GRID: 1/8" HEAVY DUTY WHITE

GB: SATIN FINISH ACRYLIC LATEX PAINT OVER GYPSUM WALLBOARD; 2 COATS OVER PRIMER
- PT-2

KP: K-13 ACOUSTICAL CELLULOSE INSULATION ON METAL EXPOSED METAL DECK. PAINT ALL REMAINING EXPOSED OVERHEAD STEEL - SW WATERBORNE ACRYLIC DRYFALL, WHITE

E: EXISTING TO REMAIN

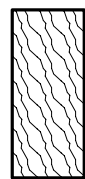
REMARKS	
1.	ALL OVERHEAD EXPOSED STEEL IS TO BE PAINTED AFTER APPLICATION AND MFR RECOMMENDED DRYING TIME OF K13 ACOUSTICAL CELLULOSE SPRAY.

GENERAL FINISH NOTES

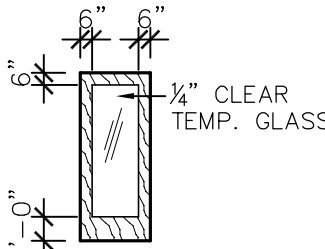
1. PAINT ALL NEW DOORS, DOORS AND WINDOW FRAMES W/ 2 COATS OF SEMI-GLOSS, ACRYLIC LATEX PAINT, PT-3 — UNLESS OTHERWISE NOTED.
2. PROVIDE THE FOLLOWING TRANSITION STRIPS AT LOCATIONS WHERE DISSIMILAR FLOOR MATERIALS MEET:
 - RUBBER FLOORING TO CONCRETE: (FLOORING INSTALLER VERIFY)
 - CERAMIC TILE TO CONCRETE: (FLOORING INSTALLER VERIFY)
 - CERAMIC TILE TO LVT: (FLOORING INSTALLER VERIFY)
3. ROOM FINISH SCHEDULE IS FOR GENERAL COORDINATION OF FINISHES. REFERENCE CONSTRUCTION PLAN (A1.01) AND FINISH PLAN (A8.02) AND INTERIOR ELEVATION(S) FOR COORDINATION OF ALL FINAL FINISHES.
4. FINISHES NOT SPECIFIED TO BE COORDINATED WITH TENANT/CONTRACTOR.
5. APPROXIMATE HEIGHT OF EXISTING CEILING GRID = 9'-0" A.F.F. (FIELD VERIFY PRIOR TO CONSTRUCTION)

DOOR LEGEND

DOOR TYPES



SOLID CORE FLUSH PAINT
GRADE WOOD DOOR (FINISH
W/ 2 COATS SEMI-GLOSS
ACRYLIC LATEX PAINT)

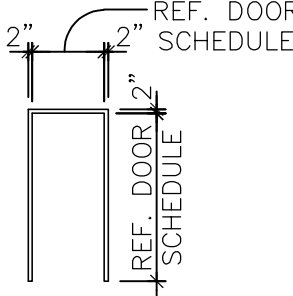


SOLID CORE FULL GLASS
WOOD DOOR. (FINISH W/ 2
COATS SEMI-GLOSS ACRYLIC
LATEX PAINT)

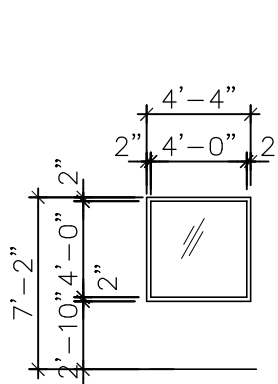
(W1)

(W2)

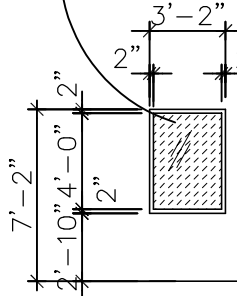
FRAME TYPES



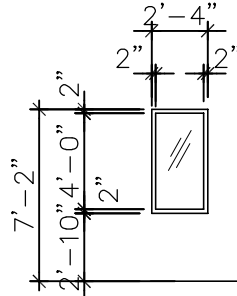
6 GA. HOLLOW MTL. FRAME
W/ WELDED CORNERS
(FINISH W/ 2 COATS SEMI-
GLOSS ACRYLIC LATEX PAINT)



ONE-WAY VIEWING
FILM APPLIED TO
STUDIO SIDE



HOLLOW METAL FRAME W/ 1/4"
CLEAR TEMPERED GLASS (FINISH
W/ 2 COATS SEMI-GLOSS
ACRYLIC LATEX PAINT)



(1)

(2)

(3)

(4)

DOOR TYPES

SOLID CORE FLUSH PAINT GRADE WOOD DOOR (FINISH W/ 2 COATS SEMI-GLOSS ACRYLIC LATEX PAINT)

SOLID CORE FULL GLASS WOOD DOOR (FINISH W/ 2 COATS SEMI-GLOSS ACRYLIC LATEX PAINT)

FRAME TYPES

16 GA. HOLLOW MTL. FRAME W/ WELDED CORNERS (FINISH W/ 2 COATS SEMI-GLOSS ACRYLIC LATEX PAINT)

HOLLOW METAL FRAME W/ 1/2" CLEAR TEMPERED GLASS (FINISH W/ 2 COATS SEMI-GLOSS ACRYLIC LATEX PAINT)

FRAME TYPES

16 GA. HOLLOW MTL. FRAME
W/ WELDED CORNERS
(FINISH W/ 2 COATS SEMI-
GLOSS ACRYLIC LATEX PAINT)

HOLLOW METAL FRAME W/ 1/4"
CLEAR TEMPERED GLASS (FINISH
W/ 2 COATS SEMI-GLOSS
ACRYLIC LATEX PAINT)

REMARKS LEGEND	
1.	VERIFY EXISTING HARDWARE IS ADA COMPLIANT AND IN SERVICEABLE CONDITION.
2.	ADD ONE-WAY WINDOW FILM ON STUDIO SURFACE.

HARDWARE SETS

GENERAL NOTES:

1. ALL HARDWARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)
2. ALL DOOR HARDWARE SHALL BE FINISH US26D OR EQUIVALENT.
3. ALL LATCHSETS AND LOCKSETS SHALL BE EQUIPPED WITH LEVER TYPE OPERATING TRIM.
4. ALL CLOSERS SHALL BE LOCATED ON ROOM SIDES OF DOORS.
5. CONTRACTOR'S HARDWARE CONSULTANT SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE HARDWARE FUNCTION AND OPTIONS.
6. CONTRACTOR SHALL COORDINATE FINAL KEYING WITH OWNER.

<u>(K) INTERIOR LATCHSET / LOCKSETS</u>	<u>(AL) ALUMINUM DOORS</u>
<u>SET # 1A.1</u> (INTERIOR SINGLE W/ LOCK - OFFICE)	<u>SET # 1AL</u> (EXTERIOR SINGLE W/ LOCK)
-HINGES "HAGER" BB1279 4½ x4½	-HINGES (HEAVY DUTY - BY DOOR MFR.)
-LOCKSET "SCHLAGE" D-SERIES, SATURN 626)	-CLOSER (HEAVY DUTY - BY DOOR MFR.)
-DOOR STOP "ROCKWOOD" 403)	-PUSH/PULLS (MATCH EXISTING)
-SILENCERS "ROCKWOOD" 608-RKW)	-DEAD LATCH (ADAMS-RITE) 4510 DEAD LATCH W/ 4560 LEVER TRIM)
<u>SET # 1A.2</u> (INTERIOR SINGLE W/ LOCK & UTILITY ROOM)	-THRESHOLD ("PEMKO" 2005 AS OR EQUAL)
-HINGES "HAGER" BB1279 4½ x4½	-WEATHERSTRIP ("PEMKO" 316 AV OR EQUAL)
-LOCKSET "SIMPLEX" LI0215 2½x6)	-BOTTOM SWEEP ("PEMKO" 345 24V OR EQUAL)
-CLOSER ("DORMA" 8600-689 SERIES)	
-DOOR STOP "ROCKWOOD" 403)	
-SILENCERS "ROCKWOOD" 608-RKW)	
<u>SET # 1A.3</u> (INTERIOR SINGLE W/ LOCK - RESTROOM)	<u>(PP) PUSH/PULLS</u>
-HINGES "HAGER" BB1279 4½ x4½	<u>SET # PP.1</u> (INTERIOR SINGLE PUSH/PULL - FITNESS ROOM)
-LATCHSET "SCHLAGE" D-SERIES, SATURN 626)	-HINGES ("HAGER" BB1279 4½ x4½)
-DEADBOLT "FALCON" D271-626)	-PUSH/PULL ("ROCKWOOD" 102X700 US 26)
-CLOSER ("DORMA" 8600-689 SERIES)	-CLOSER ("DORMA" 8600-689 SERIES)
-DOOR STOP "ROCKWOOD" 403)	-KICKPLATES 2) "ROCKWOOD" K1038 8"x34"
-DOOR STOP "ROCKWOOD" 608-RKW)	-DOOR STOP "ROCKWOOD" 441)
-SILENCERS "ROCKWOOD" 608-RKW)	-SILENCERS "ROCKWOOD" 608-RKW)

GENERAL NOTES:

1. ALL HARDWARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)
2. ALL DOOR HARDWARE SHALL BE FINISH US28D OR EQUIVALENT.
3. ALL LATCHES AND LOCKSETS SHALL BE EQUIPPED WITH LEVER TYPE OPERATING TRIM.
4. ALL CLOSERS SHALL BE LOCATED ON ROOM SIDES OF DOORS.
5. THE CONTRACTOR'S HARDWARE CONSULTANT SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE HARDWARE FUNCTION AND OPTIONS.
6. CONTRACTOR SHALL COORDINATE FINAL KEYING WITH OWNER.

(K) INTERIOR LATCHSET / LOCKSETS

SET 1_L1_L1 (OUTDOOR SINGLE W / LOCK - EFFECT)

- HINGES ("HAGER" BBI279 4½ x4½)
- LOCKSET ("SCHLAGE" D-SERIES, SATURN 626)
- DOOR STOP ("ROCKWOOD" 403)
- SILENCERS ("ROCKWOOD" 608-RKW)

SET 1_L1_K2 (OUTDOOR SINGLE W / LOCK & CLOSER - UTIL ROOM)

- HINGES ("HAGER" BBI279 4½ x4½)
- LOCKSET ("SIMPLEX" L1021S-626)
- CLOSER ("DORMA" 8600-689 SERIES)
- DOOR STOP ("ROCKWOOD" 403)
- SILENCERS ("ROCKWOOD" 608-RKW)

SET 1_L1_L3 (OUTDOOR SINGLE W / LOCK - RESTROOM)

- HINGES ("HAGER" BBI279 4½ x4½)
- LATCHSET ("SCHLAGE" D-SERIES, SATURN 626)
- DEADBOLT ("FALCON" D271-626)
- CLOSER ("DORMA" 8600-689 SERIES)
- DOOR STOP ("ROCKWOOD" 403)
- SILENCERS ("ROCKWOOD" 608-RKW)

(AL) ALUMINUM DOORS

SET 1_P1_L1 (OUTDOOR SINGLE ALUMINUM)

- HINGES ("HAGER" HEAVY DUTY - BY DOOR MFR.)
- CLOSER ("HEAVY DUTY - BY DOOR MFR.)
- PUSH/PULLS ("MATCH EXISTING")
- DEAD LATCH ("ADAMS-RITE" 4510 DEAD LATCH W / 4560 LEVER TRIM)
- THRESHOLD ("PEMKO" 2005 AS OR EQUAL)
- WEATHERSTRIP ("PEMKO" 316 AV OR EQUAL)
- BOTTOM SWEEP ("PEMKO" 345 24V OR EQUAL)

(PP) PUSH/PULLS

SET 1_P1_P1 (OUTDOOR SINGLE PUSH/PULL - FITNESS ROOM)

- HINGES ("HAGER" BBI279 4½ x4½)
- PUSH/PULL ("ROCKWOOD" 102-70K US G26)
- CLOSER ("DORMA" 8600-689 SERIES)
- KICKPLATES ("ROCKWOOD" K1038 8"x34")
- DOOR STOP ("ROCKWOOD" 403)
- SILENCERS ("ROCKWOOD" 608-RKW)

<p><u>(LK) INTERIOR LATCHSET - LOCKSETS</u></p> <p><u>SET # LK1.1</u> (EXTERIOR SINGLE W/ LOCK - OFFSET)</p> <ul style="list-style-type: none"> -HINGES "HAGER" BBI279 43x46 -LOCKSET "SCHLAGE" D-SERIES, SATURN 626) -DOOR STOP "ROCKWOOD" 403) -SILENCERS "ROCKWOOD" 608-RKW) <p><u>SET # LK2.2</u> (EXTERIOR SINGLE W/ LOCK & CLOSER - UTIL ROOM)</p> <ul style="list-style-type: none"> -HINGES "HAGER" BBI279 43x46) -LOCKSET "SIMPLEX" L102S-626) -CLOSER "DORMA" 8600-689 SERIES) -DOOR STOP "ROCKWOOD" 403) -SILENCERS "ROCKWOOD" 608-RKW) <p><u>SET # LK3.3</u> (EXTERIOR SINGLE W/ LOCK - TRAILER)</p> <ul style="list-style-type: none"> -HINGES "HAGER" BBI279 43x46) -LATCHSET "SCHLAGE" D-SERIES, SATURN 626) -DEADBOLT "FALCON" D271-626) -CLOSER "DORMA" 8600-689 SERIES) -DOOR STOP "ROCKWOOD" 403) -SILENCERS "ROCKWOOD" 608-RKW) 	<p><u>(AL) ALUMINUM DOORS</u></p> <p><u>SET # AL1.1</u> (EXTERIOR SINGLE ALUMINUM)</p> <ul style="list-style-type: none"> -HINGES "HAGER" DUTY - BY DOOR MFR.) -CLOSER "HEAVY DUTY - BY DOOR MFR.) -PUSH/PULLS (MATCH EXISTING) -DEAD LATCH "ADAMS-RITE" 4510 DEAD LATCH W/ 456-LEVER TRIM) -THRESHOLD "PEMKO" 2005 AS OR EQUAL) -WEATHERSTRIP "PEMKO" 316 AV OR EQUAL) -BOTTOM SWEEP "PEMKO" 345 2AV OR EQUAL) <p><u>(PP) PUSH/PULLS</u></p> <p><u>SET # PP.1</u> (EXTERIOR SINGLE PUSH/PULL - FITNESS ROOM)</p> <ul style="list-style-type: none"> -HINGES "HAGER" BBI279 43x46) -PUSH/PULL "ROCKWOOD" 102X70 US 626) -CLOSER "DORMA" 8600-689 SERIES) -KICKPLATES 2) "ROCKWOOD" K1038 8"x34" -DOOR STOP "ROCKWOOD" 441) -SILENCERS "ROCKWOOD" 608-RKW)
--	--

(AL) ALUMINUM DOORS

SET # AL1 (EXTERIOR SINGLE ALUMINUM)

- HINGES (HEAVY DUTY - BY DOOR MFR.)
- CLOSER (HEAVY DUTY - BY DOOR MFR.)
- PUSH/PULLS (MATCH EXISTING)
- DEAD LATCH ("ADAMS-RITE" 4510 DEAD LATCH
W/ 4510 KEY TRIM)
- THRESHOLD ("PEMKO" 200S AS OR EQUAL)
- WEATHERSTRIP ("PEMKO" 316 AV OR EQUAL)
- BOTTOM SWEEP ("PEMKO" 345 2AV OR EQUAL)

(PP) PUSH/PULLS

SET # PP1 (EXTERIOR SINGLE PUSH/PULL - FITNESS ROOM)

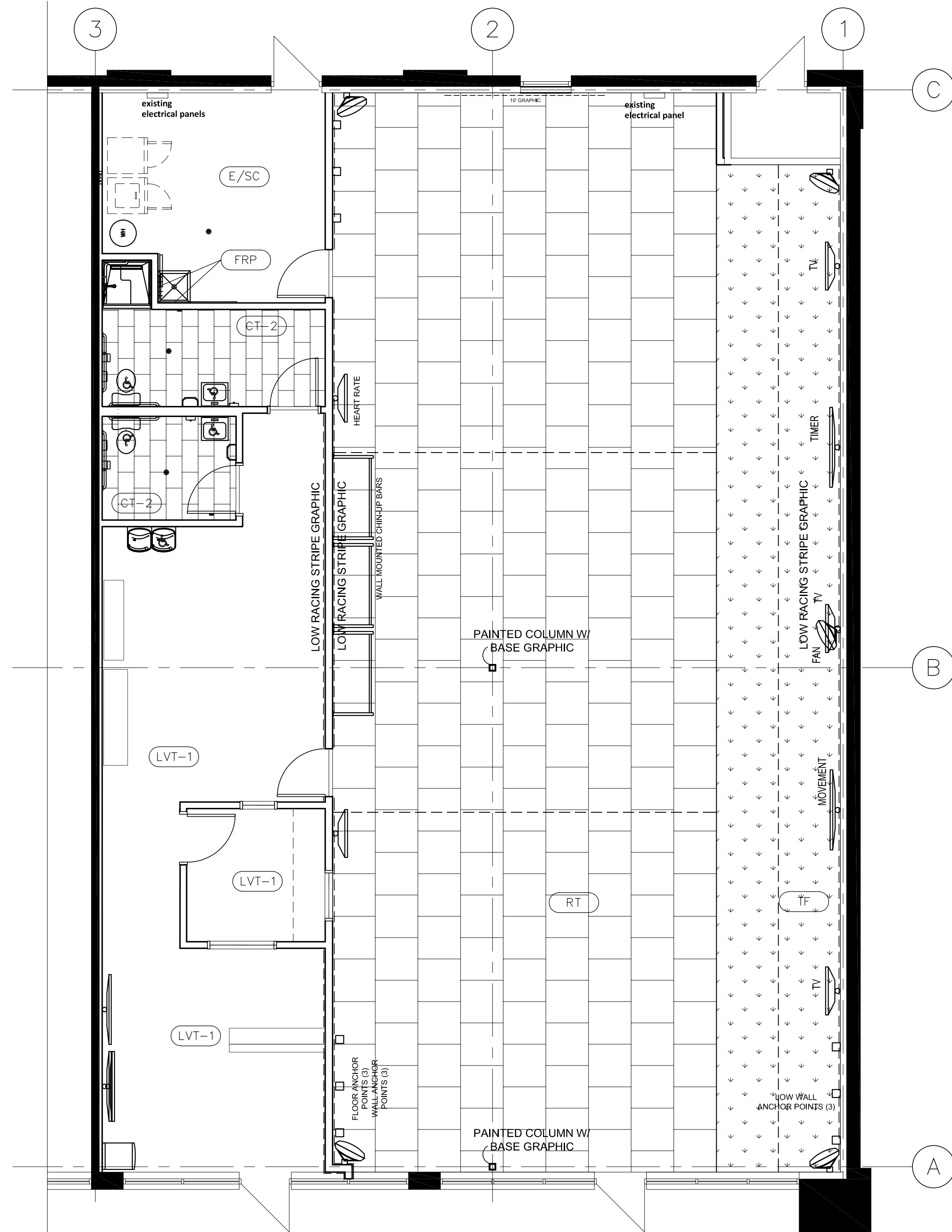
- HINGES ("HACER" B81279 4½ x4½)
- PUSH/PULL ("HACER" 102470C US 626)
- CLOSER ("DORMA" 660-689 SERIES)
- KICKPLATES ("ROCKWOOD" K1038 8"x34")
- DOOR STOP ("ROCKWOOD" 445)
- SILENCERS ("ROCKWOOD" 608-RK00)

(PP) PUSH/PULLS

SET # PP.1 (EXTERIOR SINGLE PUSH/PULL - FITNESS ROOM)

- HINGES ("HAGER" BB1279 4 1/2 x 4 1/2)
- PUSH/PULL ("ROCKWOOD" 102X70C US 626)
- CLOSER ("DORMA" 8600-689 SERIES)
- KICKPLATES (2) "ROCKWOOD" K1038 8"x34")
- DOOR STOP ("ROCKWOOD" 441)
- SILENCERS ("ROCKWOOD" 608-RKW)

SET # PP.1 (INTERIOR SINGLE PUSH/PULL - FITNESS ROOM)
 -HINGES ("HAGER" BB1279 4½ x4½)
 -PUSH/PULL ("ROCKWOOD" 102x70C US 626)
 -CLOSER ("DORMA" 8600-689 SERIES)
 -KICKPLATES (2) "ROCKWOOD" K1038 8"x34")
 -DOOR STOP ("ROCKWOOD" 441)
 -SILENCERS ("ROCKWOOD" 608-RKW)



F45 Lee's Sun

Date: 12/30/22
Issued For: PERMIT

[illegible]

PROJECT TEAM

ARCHITECT MOMENTUM
ARCHITECTURE + DESIGN

STRUCTURAL

MECHANICAL 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECT

KS - MO
Commercial & Residential
913 + 904 - 6734

KS - MO
Commercial & Residential
913 + 904 - 6734

NO.

To Be Located At:
1138 NE Douglas Rd.
Lee's Summit, MO 64086

A8.01

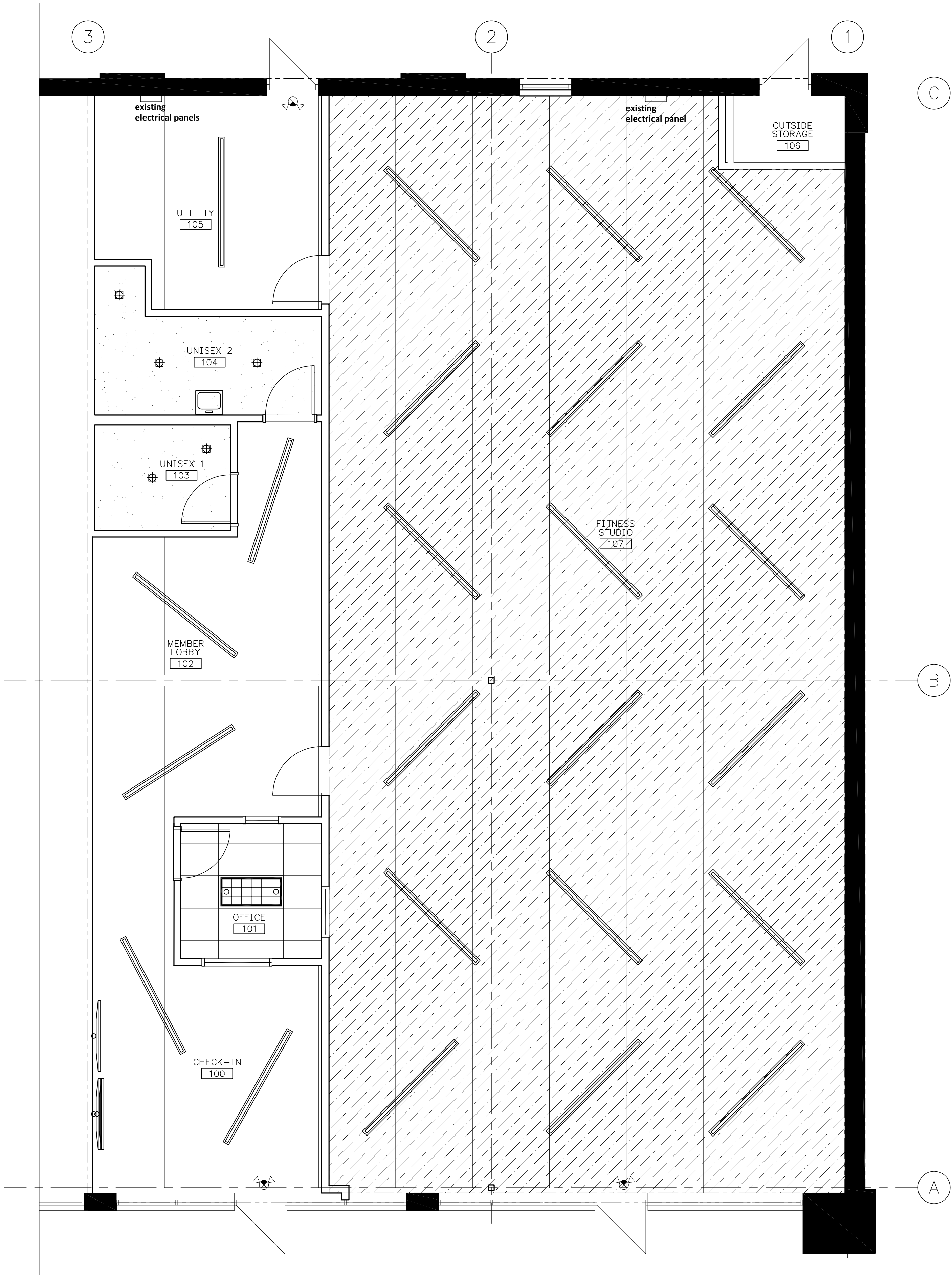
©2022

CEILING CONSTRUCTION NOTES:

1. LAYOUT SHOWN FOR REFERENCE ONLY. REF LIGHTING AND MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO REVIEW AND VERIFY LOCATIONS OF MECHANICAL EQUIPMENT INCLUDING DIFFUSERS, RETURN AIR GRILLES, AND THERMOSTATS.
3. CONTRACTOR TO REVIEW AND VERIFY LOCATIONS OF LIFE SAFETY EQUIPMENT INCLUDING EXIT SIGNS AND OCCUPANT NOTIFICATION DEVICES.
- CONTRACTOR TO REVIEW AND VERIFY LOCATIONS OF LIFE SAFETY EQUIPMENT INCLUDING EXIT SIGNS AND OCCUPANT NOTIFICATION DEVICES.

REFLECTED CEILING LEGEND

- NEW GYP. BD. CEILING
- 1" SPRAYON CELULOSE K-13 ACOUSTIC INSULATION
- NEW 2'x4' SUSPENDED ACOUSTICAL TILE CEILING AND NEW OR EXISTING GRID.
- RECESSED CAN LIGHT
REF SPECIFICATIONS
- WALL SCONCE, REF SPECIFICATIONS
- 4' OR 8' LED STRIP PENDANT LIGHT
REF SPECIFICATIONS
- WALL MOUNTED AUDIO SPEAKER, REF SPECIFICATIONS
- EXIST. SUPPLY AIR DIFFUSER TO REMAIN. REF. MECHANICAL
- NEW LOCATION FOR RELOCATED SUPPLY AIR DIFFUSER. VERIFY LOCATIONS WITH MECHANICAL CONTRACTOR.
- EXIST. RETURN AIR GRILLE TO REMAIN. VERIFY LOCATIONS WITH MECHANICAL CONTRACTOR.
- NEW/RELOCATED RETURN AIR GRILLE. VERIFY LOCATIONS WITH MECHANICAL CONTRACTOR
- EXIST. EXIT SIGN TO REMAIN
- EXIST. EXIT SIGN TO BE REMOVED. SALVAGE FOR REINSTALLATION
- NEW LOCATION FOR RELOCATED EXIT SIGN
- EXIST. EMERGENCY LIGHT TO REMAIN
- EXIST. EMERGENCY LIGHT TO BE REMOVED. SALVAGE FOR REINSTALLATION
- NEW/ RELOCATED EMERGENCY LIGHT
- EXIST. HORN/STROBE TO REMAIN
- EXIST. HORN/STROBE TO BE REMOVED. SALVAGE FOR REINSTALLATION
- NEW/ RELOCATED HORN/STROBE



1 REFLECTED CEILING PLAN
SCALE : 1/8" = 1'-0"

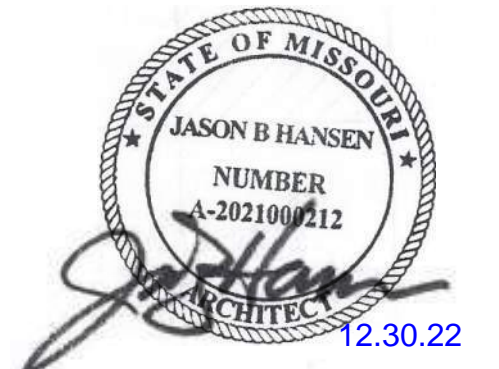
Tenant Improvements For:

F45
Lee's Summit

Date: 12/30/22
Issued For: PERMIT

REVISIONS

No.	Date	Description



PROJECT TEAM

ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
STRUCTURAL	
MECHANICAL	5BYS ENGINEERS
ELECTRICAL	5BYS ENGINEERS
FIRE PROTECTION	
CONTRACTOR	HAWTHORN PROJECTS

MOMENTUM
ARCHITECTURE+DESIGN

NO.

A9.01

KS - MO
Commercial & Residential
913 + 904 - 6734

Mad Fitness Group				12/08/2022 Update							
F45 Spec Book		VE all specifications with owner approval									
All changes/substitutions to be approved by owner											
Division	Item		Location	MFG	Model	Other	Color/Misc	Website	Add'l Contact Info	Revision	
Plumbing	Water Fountain	Standard	Hallway-per plan	Elkay	EXSTL8WS	With Bottle Filler	SS				
Plumbing	Water Fountain	Alternate	Hallway-per plan	Halsey Taylor	HTHB-HA	CG8BLSS	SS				
Plumbing	Sink Wall	Standard	Bathroom	American Standard	Lucerne 0356.041	20 x 18	White				
Plumbing	Sink Wall	Alternate	Bathroom	Gerber	Monticello II	20 x 18	White				9/22/2022
Plumbing	Toilet	Standard	Bathroom	Gerber	Pressure assist H/C	Ultra Flush 20-318	White				
Plumbing	Faucet-Sink	Standard	Bathroom	Moen	8554	Battery powered	Chrome				9/12/2022
Plumbing	Faucet-Sink	Alternate	Bathroom	American Standard	605B.204/PK00.PAC	Innsbrook Selectronic	SS				
Plumbing	Shower Hand Held	Standard	Bathroom	Luxart Classico II	LC2SYS60-CP		SS				
Plumbing	Shower Valve	Standard	Bathroom	Olympia	Temp/Pressure Balanced		SS				
Plumbing	Mop Floor Sink and Faucet	Standard	Utility	Fiat MSB2424 and 830 AA Faucet		Or equal floor mounted	White				
Plumbing	Mop Rack	Standard	Utility	Bobrick B-223 Mop holder			SS				
Plumbing	Water Heater	Standard	Utility- floor/or hung	State 50-Gallon	PCE-50-20LS	50 Gallon					
Plumbing	Water Heater	Alternate	Utility- floor/or hung	A O Smith 50-Gallon	DEL 50	50 Gallon					
Plumbing	Trench Drain	Standard	Shower	Tru-Line	304 SS with S Style grate	SS	Length by location				
Plumbing	Trench Drain	Alternate	Shower	Zurn	ZS880	SS	Length by location				
Plumbing	Washer Box	Standard	Utility	Oatey	Center drain outlet box	38934	White				
Plumbing	Floor Drain	Standard	Bathrooms/Laundry per plan	Sioux Chief	832 Series	Or equal	Nickel Bronze				
Plumbing	Clean Out	Standard	Per code - adjustable	Sioux Chief	852 Series	Or equal	Nickel Bronze				
Tile	Tile-Bathroom Wall	Standard	Bathroom	Daltile	Museo Block Grey Mix MU37	12 x 24 (Horizontal)	Total to 5' height or full tile	https://www.daltile.com/products/concrete-look/museo/grey-mix			
Tile	Tile-Bathroom Wall	Alternate	Bathroom	Daltile	Museo Block White Mix MU36	12 x 24 (Horizontal)	Only if MU37 not available	https://www.daltile.com/products/concrete-look/museo/white-mix			
Tile	Tile-Bathroom Floor	Standard	Bathroom	Daltile	Museo Natural Grey MU32	12 x 24	Natural Grey MU32	https://www.daltile.com/prd	Running bond pattern		
Tile	Tile-Shower Floor	Standard	Bathroom	Daltile	Museo Abstract Mosaic MU32	2 x 3	Natural Grey MU32	https://www.daltile.com/products/concrete-look/museo/natural-grey			
Tile	Tile- Base	Standard	Bathroom	Schluter Cove at base	Dilex-HKW	9 MM				With inside/outside trims	9/12/2022
Tile	Tile- Grout	Standard	Bathroom	Mapei	105 Driftwood	All tile					8/11/2022
Flooring	Sealed Concrete	Standard	Utility/Storage		Use LVT when floor unsuitable to be exposed		Use LVT when floor unsuitable to be exposed				
Flooring	Vinyl	Alternate	Utility/Storage	Armstrong Excelon Field Gray 51927	Use when floor unsuitable to be exposed		Use when floor unsuitable to be exposed				
Flooring	Sealed/Polished Concrete	Standard	Common areas	Office/Reception/Corridors	Use LVT when floor unsuitable to be exposed		Use LVT when floor unsuitable to be exposed				
Flooring	Floor-LVT	Standard	Common areas	Next Floor	Patina 419015 Antique Brass	18 x 24	https://www.roeselheck.com/		Dori Blitzstein blitzstein@msn.com		
Flooring	Floor-LVT (Ga and Fl locations)	Standard	Common areas	Next Floor	Patina 419015 Antique Brass	18 x 24	Dunn_Rasbury@a-msupply.com		jill_turner@a-msupply.com		
Flooring	Floor-LVT	Alternate	Common areas	Armstrong	Braco 331 Mortar	Only used when Next Floor product is not available					
Flooring	Cove base	Standard	As required per plan	Roppe or Armstrong	4" Black						
Flooring	Rubber Gym Tile	Standard	Pods	Provided by owner	3.2' x 3.2' Install in offset pattern	Adhesive only required at edges	Brick/Staggered pattern NOT Aligned	F45 Flooring - Installation Use.pdf	F45 Flooring - Installation Use.pdf		9/12/2022
Flooring	Rubber Gym Tile	Standard	Transition to LVT	Provided by flooring installer	Tarkett	CRS-40-D	Black				9/22/2022
Flooring	Astroturf Track	Standard	Sled Tracks	Provided by owner	7.8' wide	Follow manufacturer instructions	Blue	F45 Flooring - Installation Use.pdf	F45 Flooring - Installation Use.pdf		10/31/2022
Flooring	Astroturf Track Adhesive	Standard	Sled Tracks	Provided by flooring installer	Mapei Ultrabond G21	Follow manufacturer instructions		F45 Flooring - Installation Use.pdf	F45 Flooring - Installation Use.pdf		12/6/2022
Specialties	Grab Bar	Standard	Bathroom	Bobrick	B-6806	Size per plan					
Specialties	Mirror	Standard	Bathroom above Sink	Bobrick	B-165	18" x 36"					
Specialties	Sanitary Napkin Disposal	Standard	Bathroom	Bobrick	B-270		Both restrooms				
Specialties	Soap Dispenser	Standard	Bathroom	Bobrick	B-2111	Surface Mounted					
Specialties	Toilet tissue	Standard	Bathroom	Bobrick	B-4288						
Specialties	Shower rod/curtain	Standard	Bathroom	Bobrick	B6047/B204						
Specialties	Shower seat	Standard	Bathroom	Bobrick	B5181						
Specialties	Shower Shelf	Standard	Shower	Gateco	Model 1455	Wall mount shelf	SS - Must be installed at time of tiling				8/11/2022
Specialties	Robe hook	Standard	Bathroom	Bobrick	B6717/B6727						
Specialties	Hand Dryers	Standard	Bathroom	AIKE	AK2903HD	Match available voltage	Remove cord and wire direct				
Specialties	Hand Dryers	Alternate	Bathroom	Xlerator	White	Match available voltage	Only when AIKE is not available				
Specialties	Paper Towel Dispenser	Alternate	Bathroom	Tork	Xpress Multi fold	When electric is not available for hand dryers					
Specialties	Baby Changer-ONLY WHEN REQ'D	When Req.	Bathroom	Koala Kare	KB301 Grey-01	Or per drawing when required	ONLY WHEN REQUIRED by CODE		ONLY WHEN REQUIRED by CODE		10/11/2022
Specialties	Wall Fans	Standard	Pods	Comfort Zone 16" Oscillating	Model CZ16WR	With remote control	White - order from Amazon \$34.59 or price match from Home Depot	https://www.amazon.com/g	5' Total (1 each corner & 1 center over sled track)		9/12/2022
Specialties	Shelving	Standard	Utility Room	HDX	Model 21656PS	Confirm size based on space	Chrome		Available at Home Depot		8/11/2022
Electrical	Light Fixture	Standard	Everywhere but bathrooms	Warehouse Lighting	BEAMLED8 or 4- DID-130W-3CT-DMV WH	4' and 8' Direct/Indirect	White suspended (60% down/40% up) with beam canopy kits and 10' cords	https://www.warehouse-lighting.com/	https://trison-my.sharepoint.com/per		11/2/2022
Electrical	Light Fixture-Add'l cable when req'd	Standard			Add'l cable when required to extend hang of suspended light fixtures			https://www.cablemasterpowercords.com/			12/6/2022
Electrical	Light Fixture	Alternate	Everywhere but bathrooms	American Linear	2SID	4' and 8' Direct/Indirect	White 3500/4k suspended	https://www.warehouse-lighting.com/	https://trison-my.sharepoint.com/per		11/16/2022
Electrical	Light Fixture	Standard	Bathrooms	Lotus LED LD4R-HO	LD4R-35K-HO-4R-WRWT		Recessed white reflector and trim				
Electrical	Light Fixture	Alternate	Bathrooms	HE Williams	4DR-TL		Recessed				
Electrical	Light Fixture	Alternate	Bathrooms	Helios 6" recessed	6R 25L40KWF Downlight		Recessed				
Electrical	Light Fixture	Standard	Utility Room	Warehouse Lighting	4' or 8' LED high bay suspended fixture per plan-Inexpensive alternative		120-277 volt 4 lamp				
Electrical	Light Fixture	NOT USED	Bathrooms-Vanity	Not used			No vanity lights by mirror only recessed lights in bathroom				
Electrical	Cover plates	Standard	White at painted walls, Stainless at tiled walls								
Electrical	Occupancy Sensors	Standard	All areas-per plan	Per plans			Or equal with approval				
Electrical	Camera receptacles	Standard	OH mount for security cameras - 1 each facing main entrance door and rear exit doors								12/5/2022
Electrical	Outlets for Large Logo sign in Pod	Standard	Rear Wall in Exercise Rm (logo Wall per plan) 3 wall receptacles for 3 piece logo sign- Center on sign horizontally; lower at 32 1/2" AFF, middle at 69 3/4" AFF and top at 108 3/4" AFF. Coordinate final outlet location with owner. Switch location per owner (in utility rm if nearby)								12/5/2022
Electrical	Reception Counter receptacle-Quad	Standard	Quad outlet at wall located at 18" AFF at middle of side of desk.								12/5/2022
Electrical	Locker electric receptacle	Standard	Two outlets mounted horizontally 6'-6" AFF and 12" left and right of the centerline of the lockers which are 6'-0" wide.								12/5/2022
Electrical	Refrigerator receptacle	Standard	Wall outlet in Lobby or other area to be determined based on space. Verify location with Owner								12/5/2022
Electrical	Lionheart receptacle	Standard	Ceiling mounted at center of Pods								
Electrical	Bluetooth receptacle	Standard	Per Owner in Exercise Floor (may be able to use per code outlet)								
Doors	Door Hardware Hinges	Standard	All	Hager	Hager BB1279 4 1/2 x 4 1/2 US 627		Or equal				
Doors	Door Hardware Passage	Standard	Restrooms	Schlage D Series	Saturn US 626	Passage					
Doors	Occupancy Indicator Deadbolt	Standard	Restrooms	Falcon	D271- 626		Or equal				
Doors	Door Hardware Passage	Standard	Office	Schlage D Series	Saturn US 626	Passage					
Doors	Door Hardware	Standard	Other	Schlage D Series	Saturn US 626		Where applicable				
Doors	Panic Bar	Standard	Rear exits at metal doors	Von Duprin	22EO SP28 36"	With 230L SP28 Lever trim and 7205 cylinder- or equal			Where required by code		8/11/2022
Doors	All emergency exits	Standard	At all exists which are normally locked from the exterior & have panic bars	Detex Alarm EAX-500		Mount on door with keyed alarm function					
Doors	Combo Lock	Standard	Utility Room	Simplex	L1021S-626		Or equal-VE				
Doors	Door Floor Stops	Standard	As required	Rockwood	441 Low dome US 626		Or equal				
Doors	Door Wall Stops	Standard	As required	Rockwood			Or equal				
Doors	Closers	Standard	As required	Dorma	8600 689 finish		Or equal				
Doors	Push Pull	Standard	As required	Rockwood	102 x 70C US 626		Or equal				
Mechanical	HVAC Units	Standard	Per plans or equal	117/200sf in exercise floor. MUST consider sound walls for duct layout. Standard rectangular box duct with liner acceptable			HVAC Units per plan or equal approved by Mechanical Engineer				
Mechanical	Duct liner	Standard	Johns Manville	Permacote Linacoustic			Or equal				
Mechanical	Washer	Standard	Utility Room	Maytag	MVWP575GW	White	Confirm ADA not required		Maytag MVWP575G Washer.pdf		11/1/2022
Mechanical	Dryer	Standard	Utility Room	Maytag	MEDP575GW	White	Confirm ADA not required		Maytag MEDP575G Washer.pdf		11/1/2022
Mechanical	Thermostat	Standard	Must NOT be mounted on rear wall within logo design (if Tstat is to be located on rear wall of exercise floor)								
Drywall	Sound caulk at sound walls	Standard	Sound seal	OSI	SC-175	Required at sound separation walls	Or equal				
Drywall	Sound mat at sound walls	Standard	Top track	Wallmat-Ari Lesser ari@bfiacoustics.com	3" with KAI rubber bushing	ONLY REQUIRED at sound separation wall IF TENANT ABOVE		michael@bfiacoustics.com			
Drywall	Sound mat at sound walls	Alternate	RARELY REQ'D-Bottom track	Wallmat-Ari Lesser ari@bfiacoustics.com	3" with KAI rubber bushing	ONLY REQUIRED at sound separation wall IF SPACE BELOW		michael@bfiacoustics.com			
Paint	All areas	Standard	Doors, door & window frames, columns	Sherwin Williams	SW6545 Majestic Purple semi-gloss		Purple				10/11/2022
Paint	Bathrooms	Standard	Bathroom walls/ceiling	Sherwin Williams	SW7005 Pure White semi-gloss		White				
Paint	All areas	Standard	All other walls	Sherwin Williams	SW7005 Pure White eggshell		White				
Paint	All areas	Standard	Exposed deck and steel	Sherwin Williams	Dry fog white flat	Include exposed steel at K-13 spray	Fog white				
Paint	Interior Columns	Standard	All areas-per plan	Sherwin Williams	SW6545 Majestic Purple semi-gloss						
Paint	All areas	Alternate	Exposed ductwork and sprinkler piping	Sherwin Williams	DTM white per SW specs	Alternate based on owner decision					11/9/2022
Ceiling Type	Open to Deck-see below when drop ceiling required										
Ceiling Tile	ONLY WHEN REQ'D-Acoustical Tile	Standard	Workout Area, office	Armstrong	Cirrus High NRC 563	All offices, workout only when required	Office when deck is above 14'				
Ceiling Tile	ONLY WHEN REQ'D-Acoustical Tile	Standard	Workout Area, office	USG	Millennia High NRC 76505	All offices, workout only when required	Office when deck is above 14'				
Acoustics	Acoustical Spray	Standard	Workout Area	International Cellulose	K-13 - white	Or approved equal	1" coating on decking				
F45 Equipment	Chin up bars	Standard	Center in POD 2 as possible	Attachment Bolts	1/2" x 3 1/2" lag bolts with flat washers		Bolts that come with the bars are too short				10/11/2022
F45 Equipment	Wall Anchors	Standard		Attachment Bolts	3/8" x 3 1/2" lag bolts with flat washers	All Anchors are mounted vertically	Bolts that come with the anchors are too short				11/9/2022
F45 Equipment	Floor anchors	Standard		Attachment Bolts	3/8" x 3 3/4" wedge anchors with nuts and washers		Bolts Not included with equipment				10/11/2022

Tenant Improvements For:

Date:

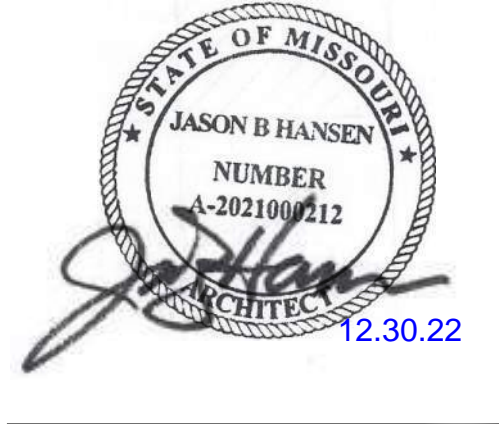
12/30/22

Issued For:

PERMIT

REVISIONS

No. Date Description



12.30.22

PROJECT TEAM

ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
STRUCTURAL	
MECHANICAL	5BYS ENGINEERS
ELECTRICAL	5BYS ENGINEERS
FIRE PROTECTION	
CONTRACTOR	HAWTHORN PROJECTS



NO.

KS - MO
Commercial & Residential
913 + 904 - 6734

A11.01

To Be Located At:

1138 NE Douglas Rd.,
Lee's Summit, MO 64086

LINETYPES LEGEND:

- NEW
--- NEW -- ON ROOF
--- EXISTING
--- EXISTING -- ON ROOF
- - - - - DEMOLITION

DUCTWORK LEGEND:

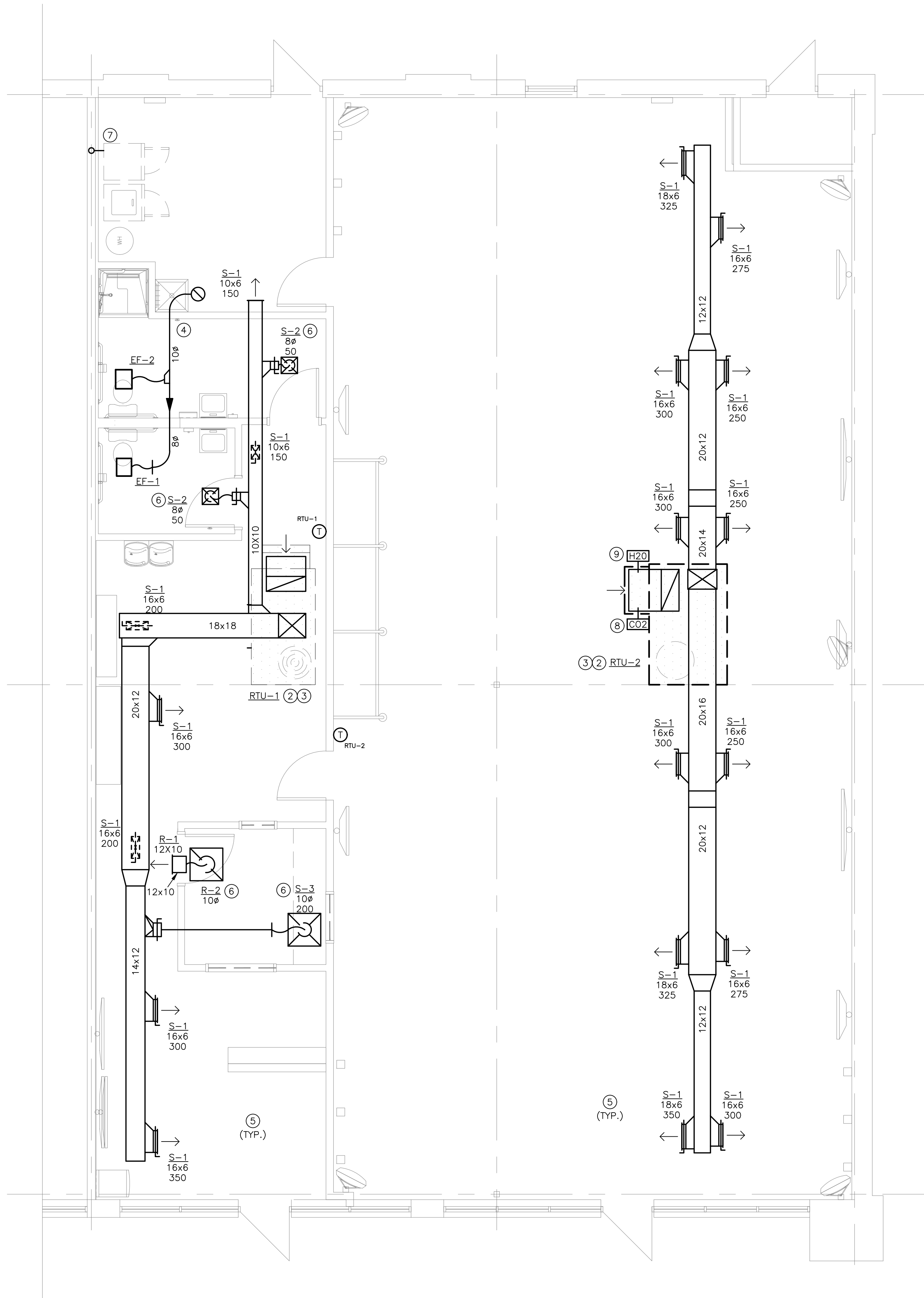
- DUCT (SINGLE LINE)
= DUCT (DOUBLE LINE)
○ → ROUND O/A OR S/A DOWN
⊗ → ROUND O/A OR S/A UP
○ → ROUND E/A OR R/A DOWN
⊗ → ROUND E/A OR R/A UP
▢ → RECTANGULAR O/A OR S/A DOWN
▢ → RECTANGULAR O/A OR S/A UP
▢ → RECTANGULAR E/A OR R/A DOWN
▢ → RECTANGULAR E/A OR R/A UP
⊠ O/A OR S/A DIFFUSER
□ E/A OR R/A GRILLE
⊠ → AIR DEVICE WITH FLEX DUCT CONNECTION
⊠ → AIR DEVICE WITH HARD DUCT CONNECTION
→ FLEXIBLE CONNECTION TO EQUIPMENT
↓ DUCT BREAK/CONTINUATION
MANUAL BALANCING DAMPER
M MOTOR-OPERATED DAMPER
BD BACKDRAFT DAMPER
F FIRE DAMPER
FS FIRE/SMOKE DAMPER
S SMOKE DAMPER
① THERMOSTAT

ANNOTATION LEGEND:

- ABC-1 EQUIPMENT / FUTURE TAG
○ PLAN NOTE
⊙ CONNECT TO EXISTING
→ AIR FLOW DIRECTION
S-1 G/R/D TAG
8ø NECK SIZE
300 AIR FLOW (CFM)

ABBREVIATIONS LEGEND:

- AFF ABOVE FINISHED FLOOR
APD AIR PRESSURE DROP
BAS BUILDING AUTOMATION SYSTEM
CAV CONSTANT AIR VOLUME
CFM CUBIC FEET PER MINUTE
(E) EXISTING
EA EXHAUST AIR
EAT ENTERING AIR TEMPERATURE
EF EXHAUST FAN
EG EXHAUST GRILLE
ESP EXTERNAL STATIC PRESSURE
FPM FEET PER MINUTE
HC HEATING CAPACITY
HP HORSEPOWER
HUM HUMIDIFIER
IN.WG INCHES WATER GAUGE
LAT LEAVING AIR TEMPERATURE
MAX MAXIMUM
MBH 1,000 BTUH
MIN MINIMUM
NC NOISE CRITERIA
OA OUTDOOR AIR
QTY QUANTITY
RA RETURN AIR
REFR REFRIGERANT
RG RETURN GRILLE
RTU ROOFTOP UNIT
SA SUPPLY AIR
SC SENSIBLE COOLING CAPACITY
SD SUPPLY DIFFUSER
TC TOTAL COOLING CAPACITY
TRA TO ROOF ABOVE
TSP TOTAL STATIC PRESSURE
VEL VELOCITY



1 MECHANICAL HVAC PLAN
SCALE: 1/4" = 1'-0"



MECHANICAL PLAN NOTES:

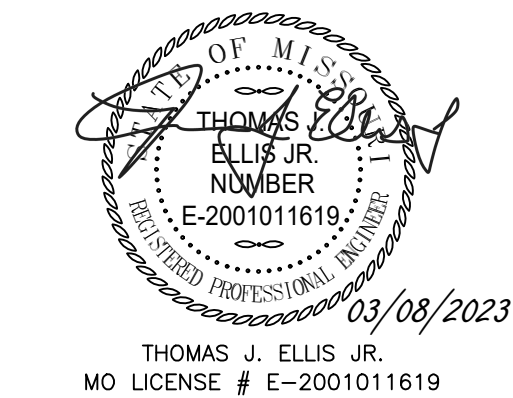
- LOCATE RTU-2 WHERE SHOWN AT LOCATION OF EXISTING ROOF CURB. REUSE EXISTING ROOF PENETRATIONS WHERE POSSIBLE. COORDINATE WITH ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY. CONTRACTOR OPTION: IF FEASIBLE, PROVIDE A CURB ADAPTER TO REUSE EXISTING ROOF CURB.
- EXISTING ROOFTOP UNIT TO REMAIN IN USE. VERIFY PROPER OPERATION AND REPORT ANY DEFICIENCIES TO OWNER. REFER TO EXISTING ROOFTOP UNIT SCHEDULE FOR TEST AND BALANCE REQUIREMENTS.
- EXTEND SUPPLY AND RETURN AIR DROPS FROM RTU TO BELOW STRUCTURE. PROVIDE A RETURN AIR ELBOW FULL-SIZE OF RTU OPENING FOR RETURN. ELBOW DUCT FOR NOISE ATTENUATION. PROVIDE 1/2" ALUMINUM MESH GRILLE FULL SIZE OF RETURN ELBOW OPENING.
- COMBINE EXHAUST DUCT FROM EF-1 AND EF-2. ROUTE 10"ø EXHAUST DUCT THROUGH ROOF WHERE SHOWN. PROVIDE ROOF PENETRATION AND TERMINATE IN GOOSENECK PER MANUFACTURER'S RECOMMENDATIONS. LOCATE DISCHARGE AT MINIMUM OF 10'-0" FROM ANY BUILDING OPENINGS, OUTDOOR AIR INTAKES OR FIRE SEPARATIONS.
- PROVIDE BALANCING DAMPERS IN ALL DUCT TAKEOFFS.
- LOCATE AIR DEVICE IN CEILING WHERE SHOWN. COORDINATE WITH REFLECTED CEILING PLAN.
- ROUTE DRYER EXHAUST IN WALL UP THROUGH ROOF. DRYER EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM. PROVIDE GOOSE NECK FOR ROOF EXHAUST. PROVIDE DRYER BOX BEHIND DRYER IN WALL.
- CO2 SENSOR FURNISHED WITH ROOFTOP UNIT BY MANUFACTURER FOR DEMAND CONTROL VENTILATION. INSTALL IN RETURN AIR DUCT AND WIRE BACK TO CONTROLLER. REFER TO RTU MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- H2O SENSOR FURNISHED WITH ROOFTOP UNIT BY MANUFACTURER FOR DEHUMIDIFICATION CONTROL SEQUENCE. INSTALL IN RETURN AIR DUCT AND WIRE BACK TO CONTROLLER. REFER TO RTU MANUFACTURER'S INSTALLATION INSTRUCTIONS.

Tenant Improvements For:

Date: 03/08/23
Issued For: For Permit

REVISIONS

No.	Date	Description



PROJECT TEAM

ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
MECHANICAL	5BY5 ENGINEERS
PLUMBING	5BY5 ENGINEERS
ELECTRICAL	5BY5 ENGINEERS
CONTRACTOR	HAWTHORN PROJECTS

1100 Main Street, 4th Floor
Kansas City, MO 64105
Kansas COA: E-2361
913-693-9449
contact@5by5eng.com
5by5eng.com

5BY5 ENGINEERS

NO. M1.0

MECHANICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO START OF WORK.

- MECHANICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

- COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED ELECTRICAL POWER WIRING AND ROUGH-IN FOR LOW-VOLTAGE CONTROL WIRING. PROVIDE ALL CONTROL WIRING AND FINAL CONTROL DEVICE (E.G. THERMOSTATS).

- FABRICATE AND INSTALL DUCTWORK PER SMACNA RECOMMENDATIONS FOR THE PRESSURE CLASSIFICATIONS ENCOUNTERED.
 - LOW PRESSURE SUPPLY AIR: +2.0 IN.WG
 - RETURN AIR: -2.0 IN.WG
 - EXHAUST AIR (UPSTREAM OF FAN): -2.0 IN.WG

- PROVIDE MITERED ELBOWS AT CHANGES IN DIRECTION IN RECTANGULAR DUCTWORK. PROVIDE TURNING VANES IN ALL ELBOWS WHERE AIRFLOW CHANGES DIRECTION AT ANGLES 45° AND GREATER, EXCEPT FOR RETURN AIR TRANSFER DUCTS.

- PROVIDE ALL CONDENSATE DRAINS FOR EQUIPMENT THAT GENERATES CONDENSATE. COORDINATE WITH PLUMBING CONTRACTOR.

- PROVIDE DUCT WRAP INSULATION FOR ALL ROUND AND RECTANGULAR SUPPLY AIR DUCTWORK. DUCT WRAP INSULATION SHALL BE 2" THICK, MINIMUM R-6.0 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.

- CONTRACTOR OPTION: PROVIDE INTERNAL LINER INSULATION FOR SUPPLY AIR DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT³ ACOUSTICAL DUCT LINER INSULATION WITH MINIMUM R-6.0.

- PROVIDE INTERNAL LINER INSULATION FOR ALL RECTANGULAR RETURN AIR TRANSFER DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT³ ACOUSTICAL DUCT LINER INSULATION.

- ALL LOW PRESSURE BRANCH DUCTWORK SERVING DIFFUSERS, REGISTERS AND GRILLES (GRD) SHALL BE THE SAME SIZE AS THE GRD'S NECK SIZE UNLESS NOTED OTHERWISE.

- DUCT DIMENSIONS SHOWN ON THE PLANS INDICATE THE FREE AREA DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO MEET FREE AREA DIMENSIONS WITH LINER INSTALLED.

- FLEXIBLE DUCTWORK SHALL HAVE 2" THICK, MINIMUM R-6.0 INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH FOR SUPPLY AIR APPLICATIONS AND 3'-0" IN LENGTH FOR RETURN AIR AND EXHAUST AIR APPLICATIONS.

- PROVIDE BALANCING DAMPERS IN DUCT TAKE-OFFS TO AIR DEVICES IN LAY-IN CEILINGS, IN THE NECKS OF AIR DEVICES IN GYP BOARD CEILINGS, AND IN THE NECKS OF SIDE WALL AIR DEVICES FOR PROPER AIR BALANCING.

- TOILET ROOM EXHAUST FANS SHALL BE AS SCHEDULED. PROVIDE A MINIMUM OF 75 CFM EXHAUST PER FLUSH FIXTURE.

- COORDINATE ALL REQUIRED ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO AVOID ROOF WARRANTY CONFLICTS.

- VERIFY AVAILABLE SPACE ABOVE ALL CEILINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY DUCTWORK. COORDINATE DUCT INSTALLATION WITH OTHER TRADES.

- ALL DIMENSIONS SHOWN ON PLAN ARE IN INCHES, UNLESS EXPLICITLY LABELED OTHERWISE.

- PROVIDE A COMPLETE TEST AND BALANCE BY A NEBB CERTIFIED TEST AND BALANCE AGENCY.

- PROVIDE ACCESS PANELS AND ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT, VALVES, DAMPERS AND DEVICES.

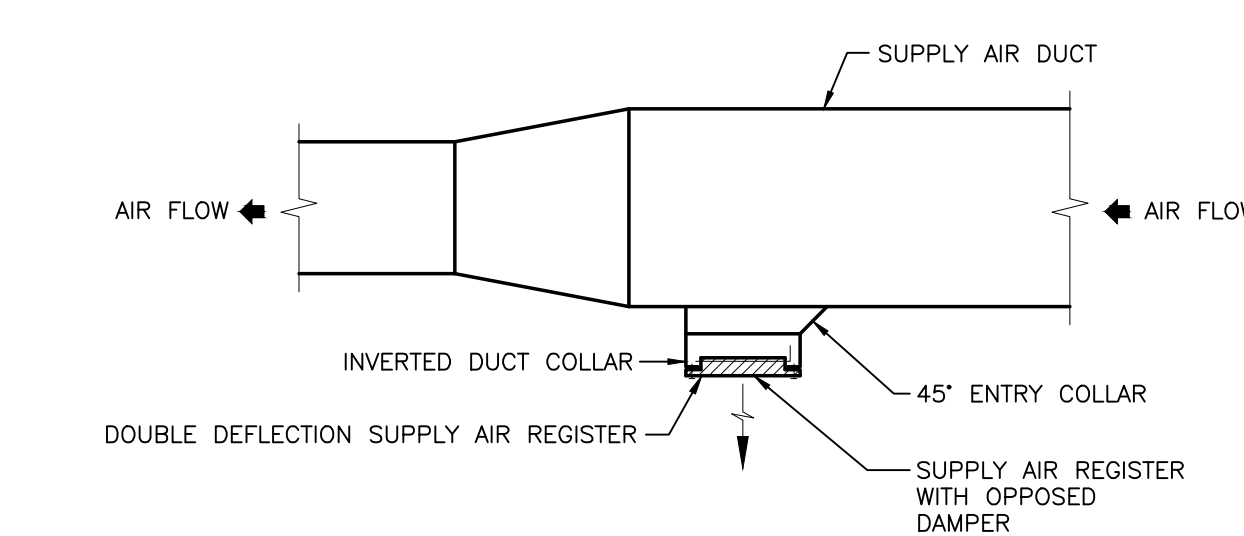
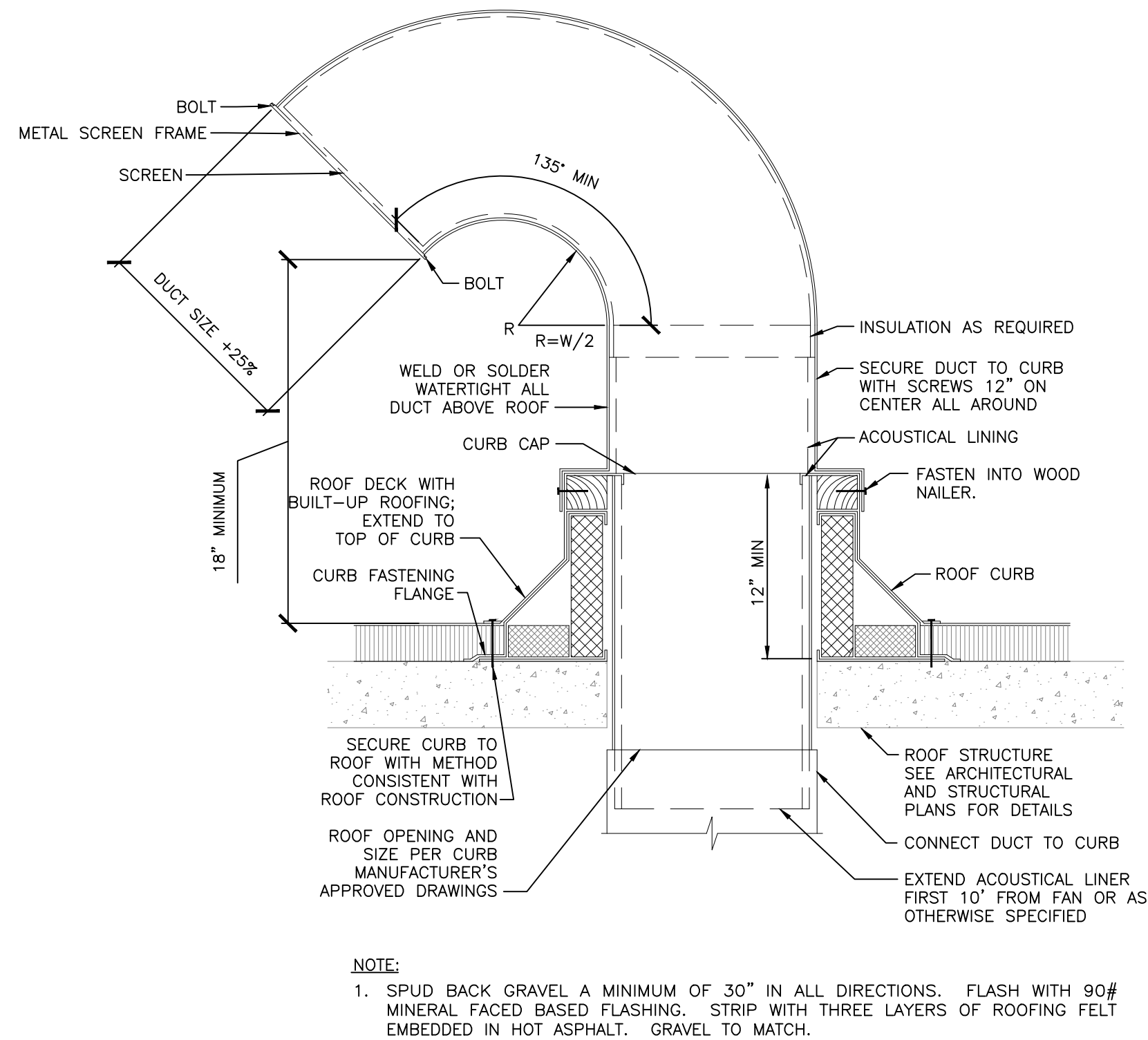
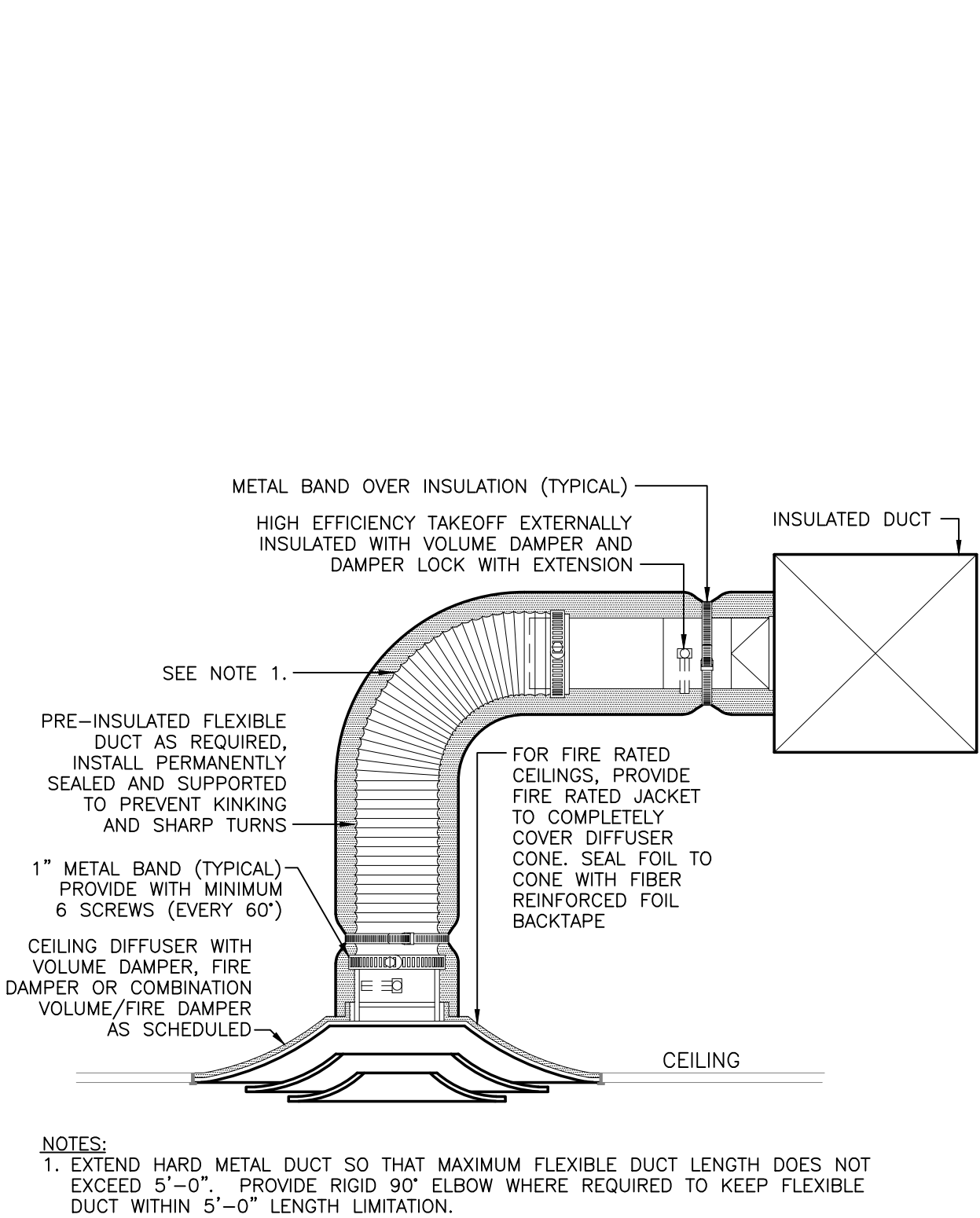
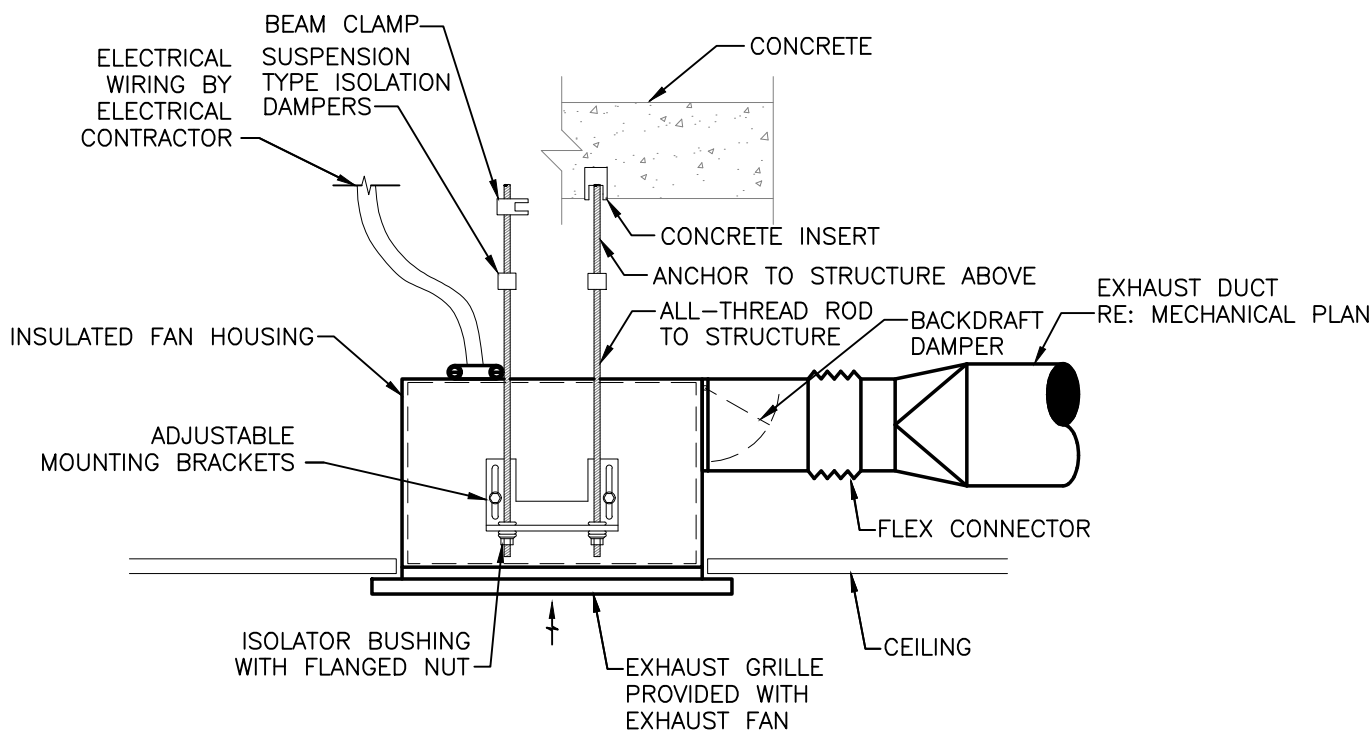
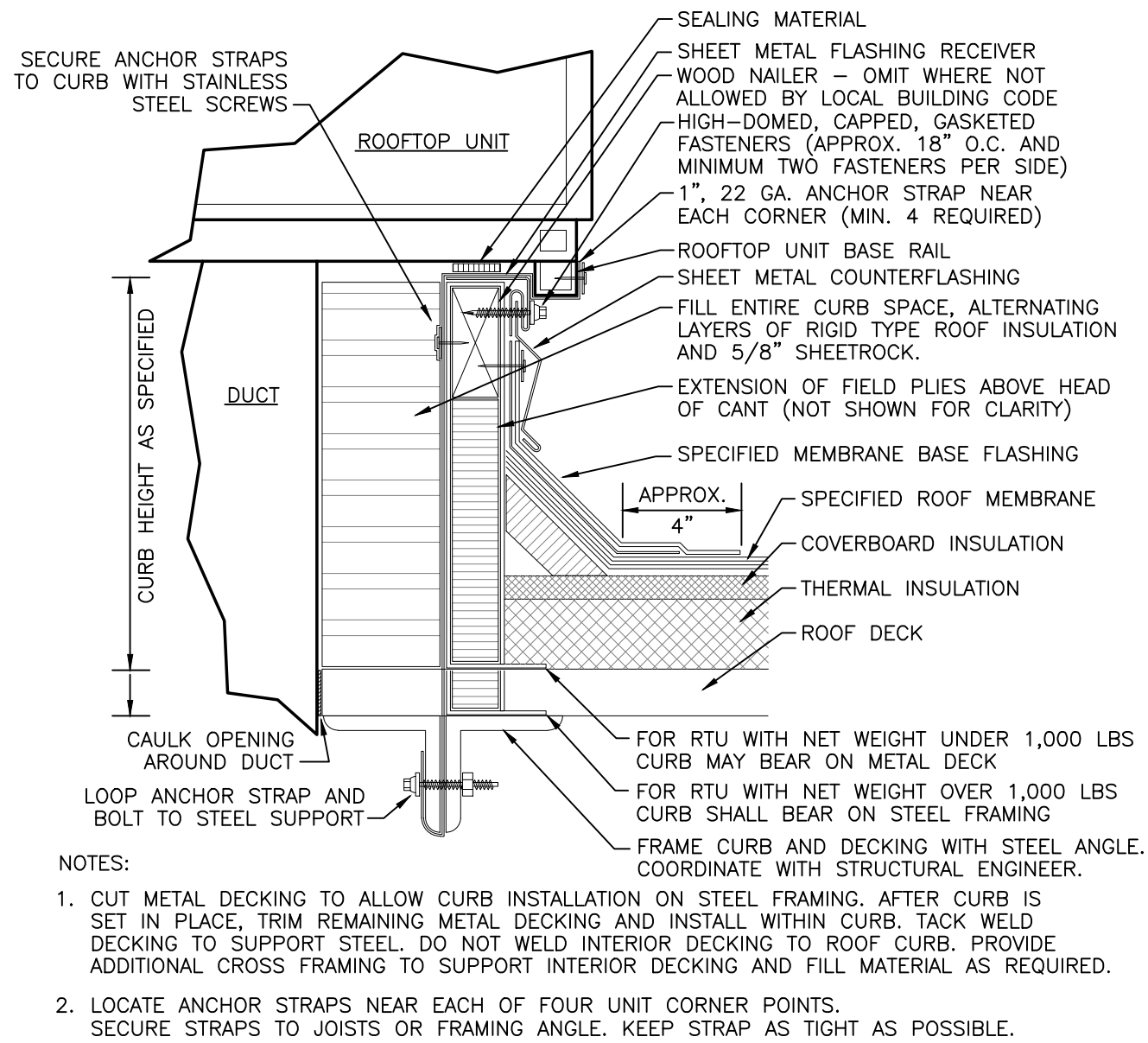
- INSPECT ALL EXISTING MECHANICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.

- LABEL ALL DUCTWORK, PIPING, MAINTENANCE DEVICES, AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.

- PROVIDE O&M MANUAL TO OWNER UPON COMPLETION OF PROJECT.

ROOFTOP UNIT SCHEDULE																																							
TAG	AREA SERVED	MANUFACTURER	MODEL	SUPPLY FAN			O/A FLOW		NOM TONS	REFR TYPE	TC (MBH)	SC (MBH)	COOLING COIL (DX)				MIN EFF		STAGES (QTY)	TC (MBH)	SC (MBH)	HOT GAS REHEAT COIL				STAGES (QTY)	OAT ("F DB)	NOM INPUT (CFH)	HEATING COIL (NATURAL GAS)				ELECTRICAL			WEIGHT (LBS)	NOTES		
				FAN CONTROL	S/A FLOW (CFM)	MOTOR (HP)	ESP (IN.WG)	DCV MIN (CFM)					DCV MAX (CFM)	EAT ("F DB)	(F WB)	LAT ("F DB)	(F WB)	(EER)				(SEER)	CLG COIL EAT ("F DB)	(F WB)	HGR COIL LAT ("F DB)				(F WB)	HC (MBH)	EAT ("F DB)	LAT ("F DB)	MIN EFF (%)	STAGES (QTY)	V/PH			MCA	MOCp
RTU-1	COMMON AREA	LENNOX	ETR	STAGED	2,400	--	0.9	200	200	6	R-410A	74.0	72.0	80.0	67.0	52.4	50.9	--	--	2	--	--	--	--	--	--	--	150.0	120.0	61.4	107.5	80	2	208/3	-	-	--	N	
RTU-2	FITNESS AREA	YORK OR EQUAL	ZYG12	STAGED	3,500	5.3	1.0	600	300	10	R-410A	123.4	90.6	80.0	67.0	56.1	54.6	12.0	14.6	2	54.9	12.6	75.0	67.0	72.1	63.0	1	85.0	220.0	176.0	55.5	101.9	80	2	208/3	53.3	60	1,222	A-M

NOTES:
A. PROVIDE WITH CONTROLLER AND CONTROL DEVICES BY MANUFACTURER. REFER TO SEQUENCES OF OPERATION.
B. PROVIDE WITH WI-FI COMPATIBLE 7-DAY PROGRAMMABLE THERMOSTAT.
C. PROVIDE WITH FIXED DRY BULB TYPE ECONOMIZER ASSEMBLY.
D. PROVIDE WITH MANUFACTURER'S BAROMETRIC RELIEF DAMPER AND HOOD ASSEMBLY.
E. PROVIDE WITH MANUFACTURER'S STANDARD INSULATED ROOF CURB WITH 1'-2" MINIMUM HEIGHT.
F. PROVIDE WITH DUCT-MOUNTED RETURN AIR HUMIDITY SENSOR FOR DEHUMIDIFICATION CONTROL SEQUENCE.
G. PROVIDE WITH DUCT-MOUNTED CARBON DIOXIDE SENSOR FOR DEMAND CONTROL VENTILATION (DCV) SEQUENCE.
H. PROVIDE WITH NON-POWERED WEATHER-PROOF DUPLEX RECEPTACLE.
I. PROVIDE WITH 2" THICK, MINIMUM MERV-8 FILTERS.
J. PROVIDE WITH FACTORY-MOUNTED RETURN AIR SMOKE DETECTOR.
K. PROVIDE WITH CONDENSER COIL GUARDS.
L. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH.
M. UNIT SIZED FOR 100°F AMBIENT CONDENSING TEMPERATURE.
N. EXISTING UNIT TO REMAIN. CONTRACTOR TO VERIFY PROPER OPERATION AND REPORT ANY DEFICIENCIES TO OWNER.



GRILLES, REGISTERS AND DIFFUSERS						
TAG	MANUFACTURER	MODEL	MOUNTING	FACE SIZE	MAX NC	MAX DP
S-1	PRICE	520	WALL/DUCT	SEE PLAN	30	0.1
S-2	PRICE	SCD	CEILING	12x12	30	0.1
S-3	PRICE	SCD	CEILING	24x24	30	0.1
R-1	PRICE	PDDR	CEILING	24x24	30	0.1
R-2	PRICE	530	WALL	SEE PLAN	30	0.1

NOTES:
A. NECK SIZE SHOWN ON PLANS.
B. 4 WAY THROW UNLESS INDICATED OTHERWISE ON PLANS.
C. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING/WALL COLOR. VERIFY WITH ARCHITECT PRIOR TO ORDER.
D. FRONT BLADES PARALLEL TO HORIZONTAL DIMENSION. VERIFY WITH PLANS.
E. PROVIDE DOUBLE DEFLECTION BARS THAT ARE ADJUSTABLE.
F. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
G. PROVIDE OPPOSED BLADE DAMPER THAT IS ADJUSTABLE FROM THE FACE OF THE DEVICE.

FAN SCHEDULE								
TAG	AREA SERVED	MANUFACTURER	MODEL	MOUNTING	AIR FLOW (CFM)	ESP (IN.WG)	MOTOR POWER	DRIVE TYPE
EF-1	RESTROOM	GREENHECK	SP-A125	CEILING	100	0.25	20 WATTS	DIRECT
EF-2	RESTROOM, SHOWER	GREENHECK	CSP-A200	CEILING	200	0.25	133 WATTS	DIRECT

- NOTES:
A. PROVIDE WITH MANUFACTURER'S STANDARD HANGING KIT AND CEILING MOUNT TRIM.
B. PROVIDE WITH DISCONNECT SWITCH.
C. PROVIDE WITH BACKDRAFT DAMPER.
D. PROVIDE WITH MANUFACTURER'S STANDARD ROOF CURB AND GOOSENECK.
E. INTERLOCK FAN WITH ASSOCIATED RESTROOM LIGHT SWITCH

OUTSIDE AIR CALCULATIONS							
OCCUPANCY CLASSIFICATION	AREA (FT ²)	OCCUPANTS (QTY)	R _p (CFM/PERSON)	MIN OCCUPANT O/A FLOW (CFM)	R _A (CFM/FT ²)	MIN AREA O/A FLOW (CFM)	CFM TOTAL
HEALTH CLUB/WEIGHT ROOM	2107	22	20	440	0.06	126	566
RECEPTION	302	10	5	50	0.06	18	68
ENTRY LOBBY	220	3	5	15	0.06	13	28
OFFICE	72	1	5	5	0.06	4	9

REQUIRED OA CFM = 672
PROVIDED DCV MAX OA CFM = 800
PROVIDED DCV MIN OA CFM = 500

NOTES:
A. R_p REPRESENTS PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.
B. R_A REPRESENTS AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.

CALCULATIONS PER 2018 INTERNATIONAL MECHANICAL CODE

To Be Located At:
Lee's Summit

Tenant Improvements For:
F45
Lee's Summit

Date: 03/08/23
Issued For: For Permit

REVISIONS		
No.	Date	Description

THOMAS J. ELLIS JR.
MA LICENSE # E-2001011619
03/08/2023

PROJECT TEAM

ARCHITECT MOMENTUM ARCHITECTURE+DESIGN

MECHANICAL 5BY5 ENGINEERS

PLUMBING 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

CONTRACTOR HAWTHORN PROJECTS

1100 Main Street, 4th Floor
Kansas City, MO 64105
Kansas COA: E-2361
913-693-9449
contact@5by5eng.com
5by5eng.com

5BY5 ENGINEERS

NO. M2.0

LINETYPES LEGEND:

- NEW — ABOVE SLAB
- - - NEW — BELOW SLAB
— EXISTING — ABOVE SLAB
- - - EXISTING — BELOW SLAB
- - - - DEMOLITION

PIPING LEGEND:

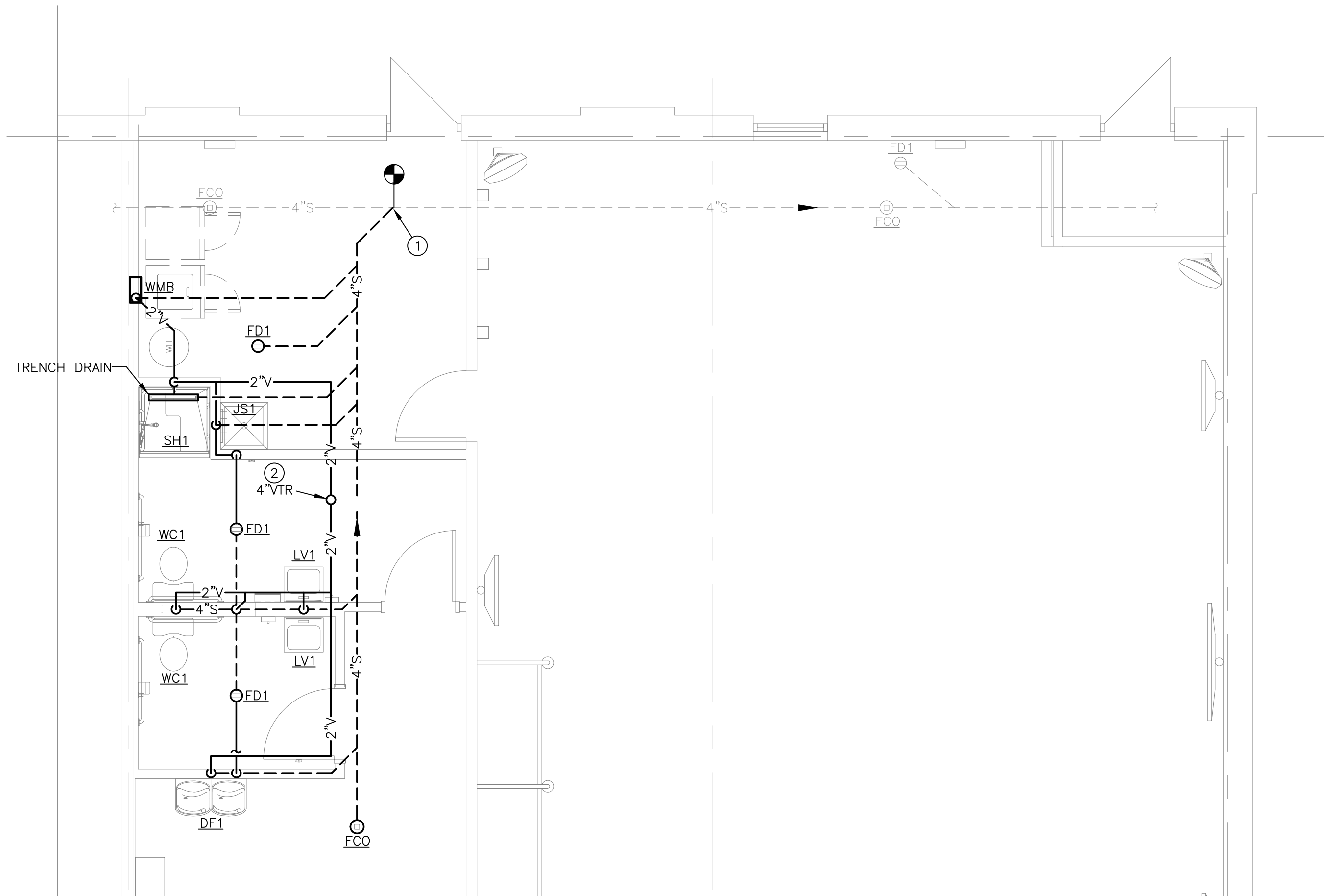
- ⌋ ELBOW DOWN
⌋ ELBOW UP
⌋ P-TRAP
⌋ TEE DOWN
⌋ ELBOW UP
⌋ SHUT-OFF VALVE (GENERIC)
⌋ BALL VALVE
⌋ GLOBE VALVE
⌋ BUTTERFLY VALVE
⌋ GATE VALVE
⌋ CHECK VALVE
⌋ BALANCING VALVE
⌋ PRESSURE REDUCING VALVE
⌋ GAS COCK
⌋ WYE-STRAINER
⌋ UNION
⌋ FLANGE
⌋ RELIEF VALVE
⌋ AIR VENT (MANUAL / AUTOMATIC)
➤ FLOW DIRECTION
— PIPE BREAK / CONTINUATION
○ FLOOR DRAIN
□ FLOOR SINK
○ FLOOR CLEANOUT
+ HOSE BIBB

ANNOTATION LEGEND:

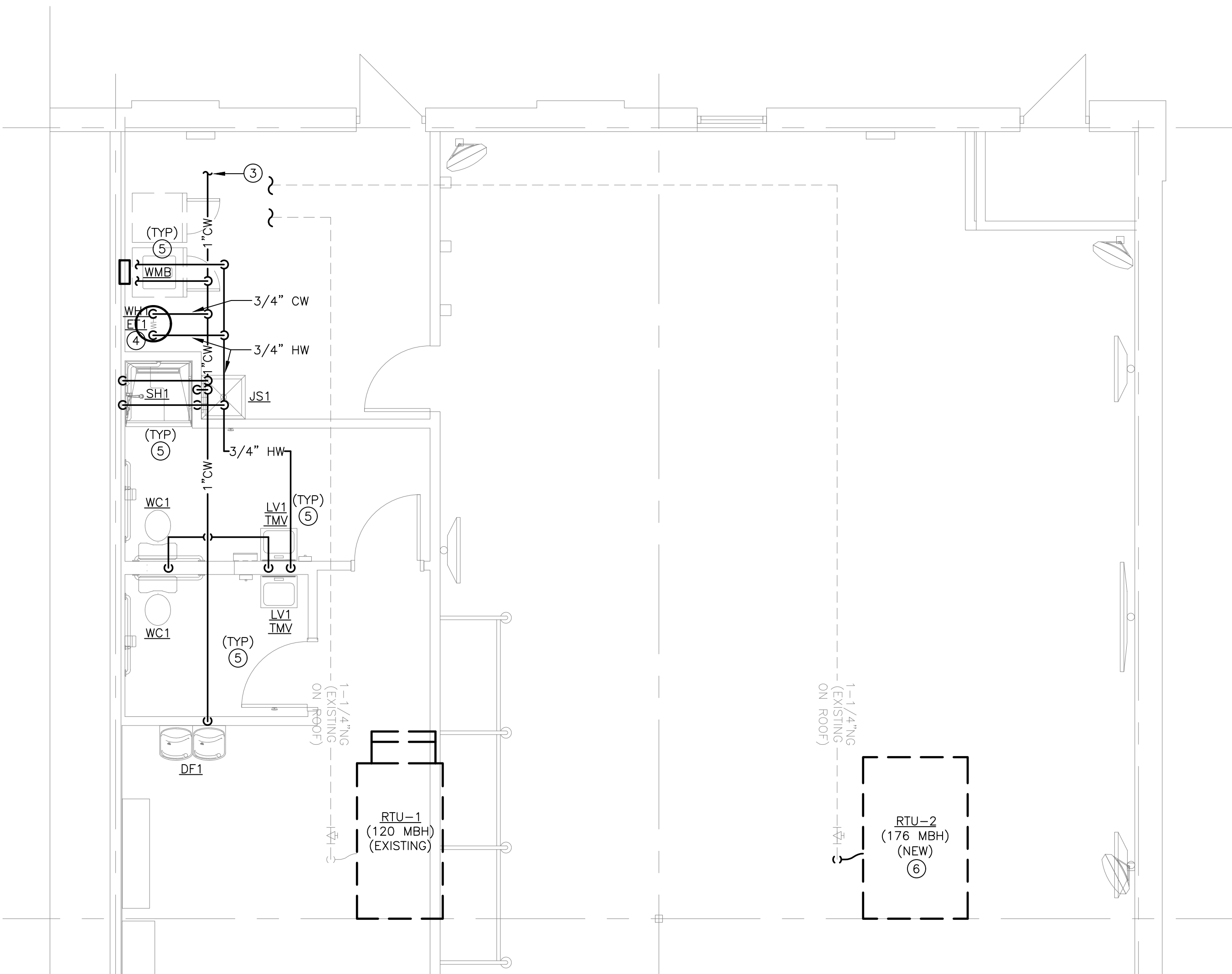
- ABC-1 EQUIPMENT / FIXTURE TAG
⊖ PLAN NOTE
⊕ CONNECT TO EXISTING

ABBREVIATIONS LEGEND:

- AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
BOP BOTTOM OF PIPE
BT BATHTUB
CFH CUBIC FEET PER HOUR
CO CLEANOUT
CW DOMESTIC COLD WATER
DF DRINKING FOUNTAIN
DN DOWN
DSN DOWNSPOUT NOZZLE
(E) EXISTING
ET EXPANSION TANK
EWC ELECTRIC WATER COOLER
EWS EYE WASH STATION
FCO FLOOR CLEANOUT
FD FLOOR DRAIN
FF FINISHED FLOOR
FFA FROM FLOOR ABOVE
FFB FROM FLOOR BELOW
FS FLOOR SINK
GI GREASE INTERCEPTOR
GPM GALLONS PER MINUTE
HB HOSE BIBB
HP HORSEPOWER
HWR HOT WATER RECIRCULATION
IE INVERT ELEVATION
IN.WG INCHES WATER GAUGE
JS JANITOR SINK
LI LINT INTERCEPTOR
LS LAUNDRY SINK
LV LAVATORY
MAX MAXIMUM
MB MOP BASIN
MBH 1,000 BTUH
MIN MINIMUM
NG NATURAL GAS
NRH NON-FREEZE HOSE BIBB
NRH NON-FREEZE ROOF HYDRANT
OD OVERFLOW ROOF DRAIN
QTY QUANTITY
RD ROOF DRAIN
RP RECIRCULATION PUMP
RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S SANITARY WASTE
SH SHOWER
SK SINK
SS SERVICE SINK
SWP SEWAGE PUMP
TD TRENCH DRAIN
TFA TO FLOOR ABOVE
TFB TO FLOOR BELOW
TMV THERMOSTATIC MIXING VALVE
TRA TO ROOF ABOVE
TSP TOTAL STATIC PRESSURE
UR URINAL
V VENT
WC WATER CLOSET
WH WATER HEATER
WCO WALL CLEANOUT
WPD WATER PRESSURE DROP



1 PLUMBING WASTE AND VENT PLAN
SCALE: 1/4" = 1'-0"



2 PLUMBING WATER AND GAS PLAN
SCALE: 1/4" = 1'-0"

PLUMBING PLAN NOTES:

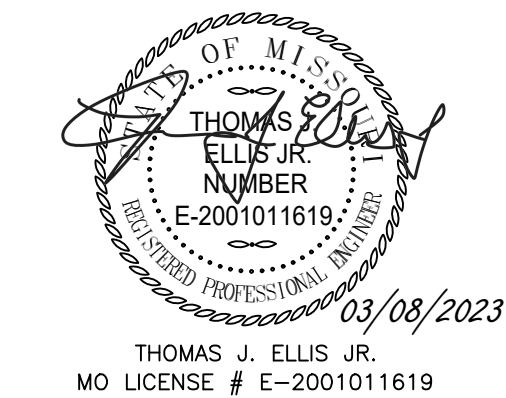
1. EXTEND NEW 4" SANITARY SEWER TO EXISTING BUILDING SANITARY SEWER. FIELD VERIFY EXACT LOCATION AND FLOW DIRECTION PRIOR TO START OF WORK.
2. PROVIDE NEW 4" VENT THROUGH ROOF (VTR) WHERE SHOWN. MAINTAIN A MINIMUM OF 10'-0" FROM ANY OUTDOOR AIR INTAKE OR BUILDING OPENING. RE-USE EXISTING VENT IF POSSIBLE.
3. EXTEND NEW 1" DOMESTIC WATER LINE FROM EXISTING BUILDING WATER SUPPLY TO SERVE REMODEL. PROVIDE ISOLATION BALL VALVE AT CONNECTION TO BUILDING MAIN. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK.
4. LOCATE WATER HEATER ABOVE JANITOR'S SINK ON SHELF. CONNECT WATER PIPING AND EXPANSION TANK TO WATER HEATER SYSTEM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON SHEET P2.0 FOR ADDITIONAL INFORMATION.
5. EXTEND COLD WATER AND HOT WATER TO PLUMBING FIXTURES INDICATED. MAKE FINAL CONNECTIONS PER PLUMBING FIXTURE CONNECTION SCHEDULE.
6. RE-CONNECT NATURAL GAS TO NEW ROOFTOP UNIT AS SHOWN. PROVIDE DIRT LEG AND GAS COCK AT ROOFTOP UNIT CONNECTION. REFER TO ROOFTOP UNIT INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH HVAC CONTRACTOR.

Tenant Improvements For:

Date: 03/08/23
Issued For: For Permit

REVISIONS

No.	Date	Description

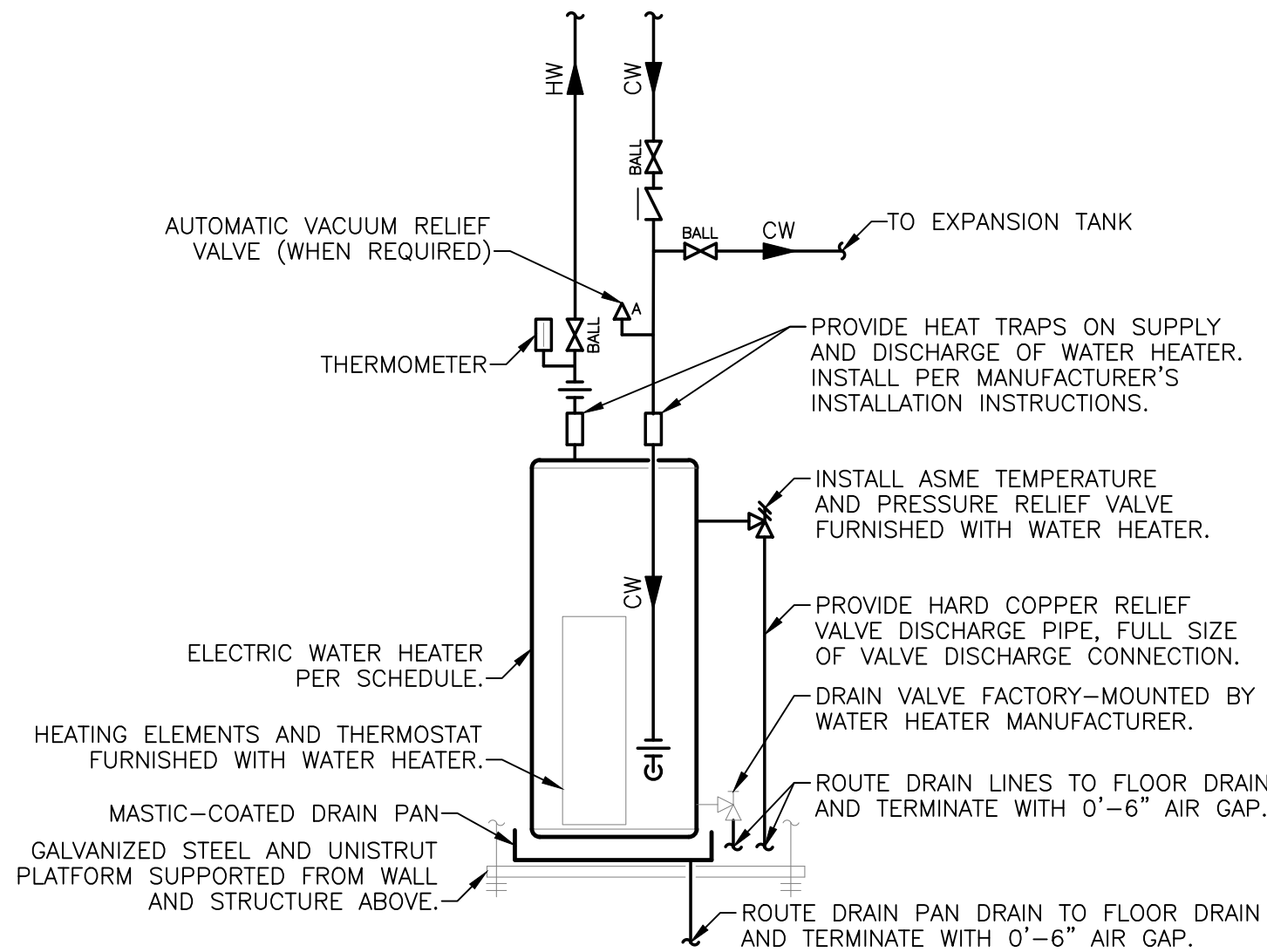


PROJECT TEAM	
ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
MECHANICAL	5BY5 ENGINEERS
PLUMBING	5BY5 ENGINEERS
ELECTRICAL	5BY5 ENGINEERS
CONTRACTOR	HAWTHORN PROJECTS

1100 Main Street, 4th Floor
Kansas City, MO 64105
Kansas COA: E-2361
913-693-9449
contact@5by5eng.com
5by5eng.com

5BY5 ENGINEERS

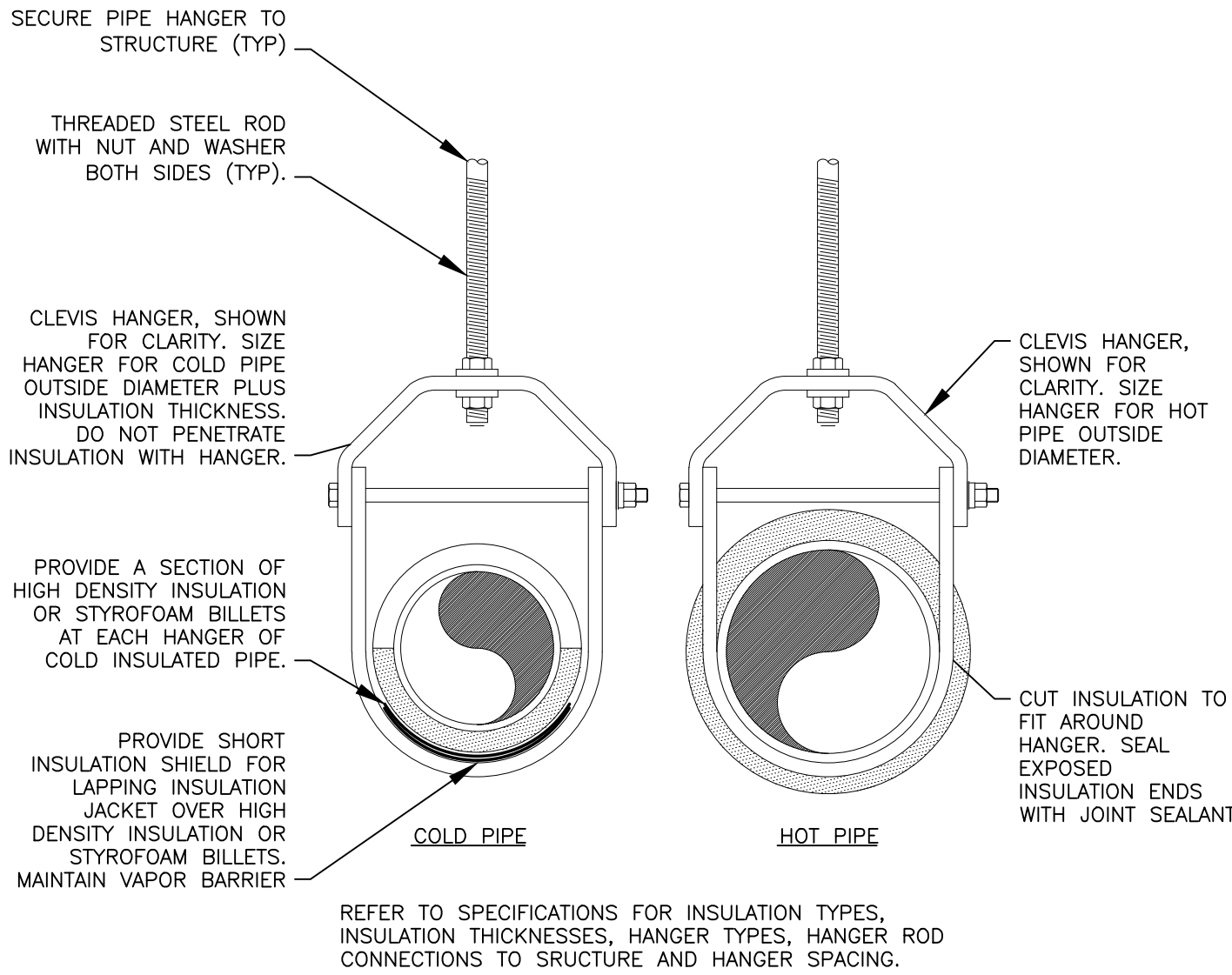
NO. P1.0



NOTES:

- STRUCTURE AND PLATFORM SHALL BE DESIGNED TO HOLD THE MAXIMUM WEIGHT OF THE WATER HEATER. CONFIRM CAPACITY OF SHELF WITH MANUFACTURER PRIOR TO INSTALLATION.

2 WATER HEATER DETAIL
SCALE: NTS



1 INSULATED PIPE HANGER DETAIL
SCALE: NTS

NATURAL GAS LOAD SCHEDULE				
EQUIPMENT TAG	QTY	DESCRIPTION	CFH INPUT (EACH)	TOTAL CFH
RTU-1	1	ROOFTOP UNIT	90	90
RTU-2	1	ROOFTOP UNIT	176	176
			SYSTEM TOTAL = 266	
NOTES:				
A. METER DISCHARGE PRESSURE: 11 IN.WG.				
B. TOTAL DEVELOPED LENGTH: 350 FT.				
C. DESIGN NATURAL GAS PIPING SYSTEM PRESSURE DROP: 0.5 IN.WG				
D. INLET PRESSURE FOR ALL GAS-FIRED EQUIPMENT: 7 TO 11 IN.WG.				

FIXTURE CONNECTION SCHEDULE					
FIXTURE	WASTE	VENT	COLD	HOT	NOTES
CLOTHES WASHER (RESIDENTIAL)	2"	2"	1/2"	1/2"	VB
DRINKING FOUNTAIN	2"	1-1/2"	1/2"	---	---
FLOOR DRAIN	2"	2"	---	---	---
JANITOR'S SINK	2"	1-1/2"	1/2"	1/2"	VB
LAVATORY - PUBLIC	2"	1-1/2"	1/2"	1/2"	TMV
SHOWER	2"	1-1/2"	1/2"	1/2"	TMVS
WATER CLOSET (TANK TYPE)	4"	2"	1/2"	---	---
NOTES: AG: AIR GAP FITTING AS PROVIDED BY MANUFACTURER. DCV: DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1015. DCVB: DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1022. RP: REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1013. TMV: POINT OF USE TYPE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070. TMVS: SCALD PROTECTION SHOWER/TUB VALVE, CONFORMING TO ASSE 1016. VB: ATMOSPHERIC TYPE VACUUM BREAKER CONFORMING TO ASSE 1020. INSTALL BACKFLOW PREVENTION DEVICES ON EQUIPMENT AND FIXTURES PER LOCAL WATER COMPANY REQUIREMENTS. ALL BACKFLOW PREVENTERS SHALL BE IN AN ACCESSIBLE LOCATION FOR PERIODIC INSPECTION AND TESTING.					

	MaD Fitness Group			12/08/2022 Update			
	F45 Spec Book		VE all specifications with owner approval				
All changes/substitutions to be approved by owner							
Division	Item		Location	MFG	Model	Other	Color/Misc
Plumbing	Water Fountain	Standard	Hallway-per plan	Elkay	EXSTLSWS	With Bottle Filler	SS
Plumbing	Water Fountain	Alternate	Hallway-per plan	Halsey Taylor	HTHB-HA	CG8BLSS	SS
Plumbing	Sink Wall	Standard	Bathroom	American Standard	Lucerne 0356 041	20 x 18	White
Plumbing	Sink Wall	Alternate	Bathroom	Gerber	Monticello II	20 x 18	White
Plumbing	Toilet	Standard	Bathroom	Gerber	Pressure assist H/C	Ultra Flush 20-318	White
Plumbing	Faucet-Sink	Standard	Bathroom	Moen	8554	Battery powered	Chrome
Plumbing	Faucet-Sink	Alternate	Bathroom	American Standard	605B.204/PK00.PAC	Innsbrook Selectronic	SS
Plumbing	Shower Hand Held	Standard	Bathroom	Luxart Classico II	LC2SYS60-CP		SS
Plumbing	Shower Valve	Standard	Bathroom	Olympia	Temp/Pressure Balanced		SS
Plumbing	Mop Floor Sink and Faucet	Standard	Utility	Fiat MSB2424 and 830 AA Faucet		Or equal floor mounted	White
Plumbing	Mop Rack	Standard	Utility	Bobrick B-223 Mop holder			SS
Plumbing	Water Heater	Standard	Utility- floor/or hung	State 50-Gallon	PCE-50-20LS	50 Gallon	
Plumbing	Water Heater	Alternate	Utility- floor/or hung	A O Smith 50-Gallon	DEL 50	50 Gallon	
Plumbing	Trench Drain	Standard	Shower	Tru-Line	304 SS with S Style grate	SS	Length by location
Plumbing	Trench Drain	Alternate	Shower	Zurn	ZS880	SS	Length by location
Plumbing	Washer Box	Standard	Utility	Oatey	Center drain outlet box	38934	White

PLUMBING FIXTURE SCHEDULE:

INFORMATION BELOW IS FOR GENERAL FIXTURE REQUIREMENTS ONLY. PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT FOR EXACT FIXTURE REQUIRED FOR THE PROJECT. COORDINATE WITH OWNER FOR INFORMATION ON PROCURING FIXTURES AND ASSOCIATED COSTS. CONTRACTOR SHALL BE CLEAR AS TO WHAT FIXTURES ARE INCLUDED IN THEIR PROPOSED COSTS.

FIXTURES IN THIS SCHEDULE, OR THE APPROVED EQUIVALENT, SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER REQUIREMENTS.

REFER TO TENANT SPEC BOOK SCHEDULE ON THIS SHEET FOR BASIS OF DESIGN FIXTURES AND EQUIPMENT. CONTRACTOR SHALL GET PRE-APPROVAL FROM TENANT PRIOR TO OFFERING SUBSTITUTIONS.

DF1

- ELECTRIC WATER COOLER WITH BOTTLE FILLER (ADA ACCESSIBLE): WALL-MOUNTED, BARRIER-FREE, DUAL-LEVEL, FRONT AND SIDE PUSH ACTUATOR BARS, STAINLESS STEEL BOWL, FLEXIBLE POLYESTER ELASTOMER SAFETY BUBBLER AND GALVANIZED STEEL FRONT AND SIDES, BOTTLE FILLING STATION, CHILLER WITH 8.0 GALLONS PER HOUR CAPACITY AT 50°F DRINKING WATER, 80°F INLET WATER, AND 90°F ROOM TEMPERATURE. UNIT SHALL BE LEAD FREE DESIGN AND MEET FEDERAL AND STATE LOW-LEAD REQUIREMENTS.
- TRIM: QUARTER-TURN BALL TYPE ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, 1-1/4" 17-GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-T-RAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON.
- ACCEPTABLE MANUFACTURERS: ELKAY 'EXSTLBWS' OR EQUAL HALSEY TAYLOR 'HTHB-HA-CGBLSS'.
- ELECTRICAL REQUIREMENTS: 120V/1ø, 6.0 FLA.

ET1

- EXPANSION TANK: 150 PSIG MAXIMUM WORKING PRESSURE, 4.5-GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, AND 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE.

FCO1

- FLOOR CLEANOUT: CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, HEAVY DUTY SCORIATED NICKEL BRONZE TOP. INSTALL PER MANUFACTURER'S REQUIREMENTS BASED ON FLOORING TYPE USED. PROVIDE ACCESSORIES AS REQUIRED FOR PROPER INSTALLATION. COORDINATE FINISH TYPE WITH ARCHITECTURAL PLANS.

FD1

- FLOOR DRAIN: BODY MATERIAL TO MATCH CONNECTED PIPING, WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, AND 6" NICKEL BRONZE STRAINER WITH VANDAL-PROOF SCREWS. PROVIDE P-TRAP AND WASTE ARM SIZED AS INDICATED ON PLAN.
- ACCESSORIES: PROVIDE TRAP GUARD.

LV1

- WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW.
- FAUCET: FAUCET WITH 4" CENTERSET, VANDAL-RESISTANT, WITH LEVER HANDLES AND 0.5 GPM AERATOR.
- FAUCET ACCEPTABLE MANUFACTURER: MOEN #8554 OR AMERICAN STANDARD #605B.204/PK00.PAC.
- TRIM: GRID DRAIN WITH TAILPIECE, QUARTER-TURN BALL TYPE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 1-1/4" 17-GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND INSULATION KIT FOR WATER AND WASTE PIPES.
- ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD LUCERNE '0356.041' OR GERBER 'MONTICELLO II'.

SH1

- SHOWER, HAND HELD NOZZLE LUXART CLASSICO II 'LC2SYS60-CP', AND OLYMPIA TEMP/PRESSURE BALANCED VALVE.

TMV1

- THERMOSTATIC MIXING VALVE: SOLID BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. MAXIMUM TEMPERATURE STOP SET FOR 110 DEGREES. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLANS.

WC1

- FLOOR-MOUNTED WATER CLOSET (ADA ACCESSIBLE): TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, SIPHON FLUSH ACTION, AND CLOSE-COUPLED TANK WITH TRIP LEVER ON THE WIDE SIDE OF THE STALL.
- TRIM: WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY-DUTY, SEAT-LESS-COVER WITH SELF-SUSTAINING HINGES AND STAINLESS STEEL BOLTS; QUARTER-TURN BALL TYPE ANGLE STOP VALVE WITH RISER AND CHROME-PLATED ESCUTCHEON.
- ACCEPTABLE MANUFACTURER: GERBER PRESSURE ASSIST H/C 'ULTRA-FLUSH 20-318'.

WCO1

- WALL CLEANOUT: CAST IRON CLEANOUT TEE, COUNTER-SUNK CAST IRON PLUG WITH GASKET SEAL, AND STAINLESS STEEL ROUND COVER WITH SCREW.

WH1

- WATER HEATER: ELECTRIC, 50 GALLON, 4.5 KW INPUT, 18 GALLON PER HOUR RECOVERY AT 100°F TEMPERATURE RISE AND 140°F OPERATING TEMPERATURE. PROVIDE WITH DUAL-ELEMENT, NON-SIMULTANEOUS HEATING ELEMENTS. PROVIDE ALL WATER CONNECTIONS, VALVES, AND SPECIALS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- ELECTRICAL REQUIREMENTS: 208V/1ø, 21.6 FLA.
- BASIS OF DESIGN: A.O. SMITH MODEL # DEL-50.

WMB

- WASHING MACHINE BOX: STEEL BOX, STEEL FACEPLATE, TOP INLET WATER SUPPLIES WITH QUARTER TURN BALL VALVES AND 2" BOTTOM OUTLET DRAIN.
- TRIM: 24" LONG TAILPIECE AND 2" DIAMETER P-TRAP.
- BASIS OF DESIGN: OATEY CENTER DRAIN #38934

PLUMBING GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL PLUMBING WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO BID OR START OF WORK.

- PLUMBING WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

- PRIOR TO START OF WORK, CONTRACTOR SHALL CAMERA ALL EXISTING UNDERGROUND SANITARY SEWER LINES. VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND FLOW DIRECTION. REPORT ANY PIPING DAMAGE OR LOCATION DISCREPANCIES TO ENGINEER AND/OR OWNER PRIOR TO START OF WORK.

- EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OF CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (E.G. DOMESTIC WATER, SEWER, VENT, AND NATURAL GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANIES.

- SANITARY WASTE, VENT, AND STORM PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOLVENT-WELDED JOINTS.

- SANITARY WASTE, VENT, AND STORM PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON IN RETURN AIR PLENUM APPLICATIONS. PVC OR ABS PIPING CAN BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.

- SLOPE SANITARY PIPING AS FOLLOWS: 1/4" PER FOOT FOR PIPE SIZES 2-1/2" AND SMALLER, AND 1/8" PER FOOT FOR PIPE SIZES 3" AND LARGER.

- COORDINATE CONDENSATE DRAIN REQUIREMENTS WITH THE HVAC CONTRACTOR AND OTHER TRADES.

- PROVIDE WATER SUPPLY SHUT-OFF VALVES ON EACH TOILET ROOM GROUP AND TO MISCELLANEOUS EQUIPMENT.

- PROVIDE SIZE "A" WATER HAMMER ARRESTORS ON SUPPLY TO ALL PLUMBING FIXTURES.

- PROVIDE STOP VALVES ON ALL INDIVIDUAL PLUMBING FIXTURE SUPPLIES.

- COORDINATE SELECTION OF ALL PLUMBING FIXTURES WITH ARCHITECT AND OWNER. ALL HANDICAPPED FIXTURES (WHERE REQUIRED) SHALL COMPLY WITH A.D.A. REQUIREMENTS.

- DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.

- INSULATE NEW DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRCULATION, INTERIOR CONDENSATE DRAIN, AND STORM PIPING WITH MINIMUM 1" FIBERGLASS INSULATION (MINIMUM R-4.0) WITH PAPER COVERING.

- ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. SUPPORT PIPING AT INTERVALS NOT TO EXCEED THOSE LISTED IN TABLE 415.1 OF THE INTERNATIONAL FUEL GAS CODE.

- PROVIDE RUST-INHIBITOR PAINT ON ALL NATURAL GAS PIPING LOCATED EXTERIOR TO THE BUILDING.

- PROVIDE A.G.A. APPROVED GAS COCKS AND DIRT LEGS AT CONNECTIONS TO ALL GAS-FIRED EQUIPMENT.

- INSTALL ALL PLUMBING EQUIPMENT, FIXTURES, VALVES, ETC. PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ADDITIONAL APPURTENANCES PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

- INSTALL CLEANOUTS AT EVERY END OF SANITARY PIPING RUNS, AT MINIMUM OF EVERY 100'-0" OF SANITARY PIPING, AND AT EVERY CHANGE IN DIRECTION GREATER THAN 45°. REFER TO SECTION 708 OF THE INTERNATIONAL PLUMBING CODE FOR ADDITIONAL REQUIREMENTS.

- ALL FLOOR DRAINS SHALL HAVE A 2" THROAT AND P-TRAP UNLESS NOTED OTHERWISE.

- PLUMBING CONTRACTOR SHALL INSPECT ALL PLUMBING EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.

- CONTRACTOR SHALL LABEL ALL PIPING, VALVES AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.

- WHERE ALLOWED BY CODE, CROSS-LINKED POLYETHYLENE (PEX) PIPING MAY BE USED IN LIEU OF COPPER PIPING. ADJUST SIZING OF PIPING FOR REDUCED FREE AREA OF PEX PIPING. ALL PEX PIPE ROUTED IN RETURN AIR PLENUMS MUST MEET THE FLAME SPREAD RATING AND SMOKE DEVELOPED RATING FOR SUCH APPLICATIONS.

To Be Located At:
Lee's Summit

1138 NE Douglas Street
Lee's Summit, MO 64086

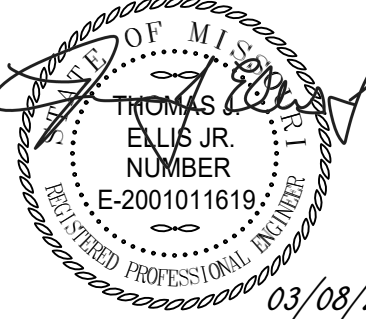
Tenant Improvements For:

F45
Lee's Summit

Date: 03/08/23
Issued For: For Permit

REVISIONS

No.	Date	Description



THOMAS J. ELLIS JR.
MO LICENSE # E-2001011619

PROJECT TEAM

ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
MECHANICAL	5BY5 ENGINEERS
PLUMBING	5BY5 ENGINEERS
ELECTRICAL	5BY5 ENGINEERS
CONTRACTOR	HAWTHORN PROJECTS

1100 Main Street, 4th Floor
Kansas City, MO 64105
Kansas COA: E-2361
913-693-9449
contact@5by5eng.com
5by5eng.com

5BY5
ENGINEERS

NO.

P2.0

LINE TYPES LEGEND:

- NEW
— EXISTING OR BY OTHERS
- - - - - DEMOLITION

LIGHTING LEGEND:

- • CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4'
• • CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' (NIGHT LIGHT OR EMERGENCY CIRCUIT)
— STRIP LIGHT FIXTURE. REFER TO FIXTURE SCHEDULE FOR LENGTH.
○ WALL-MOUNT SCONCE OR WALL BRACKET LIGHT FIXTURE.
○ ○ RECESSED WALL WASH CAN LIGHT FIXTURE.
○ ○ RECESSED, SURFACE, OR STEM HUNG LIGHT FIXTURE.
↗ ↘ SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
↗ ↘ DOUBLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
↗ ↘ COMBINATION SINGLE FACE EXIT/EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE.
NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

POWER LEGEND:

- INDICATES ABOVE COUNTER (TYP)
• • DUPLEX RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48" AFF (UNO).
• • DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48" AFF (UNO).
• • DUPLEX RECEPTACLE ON STAND-BY GENERATOR POWER, MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE COUNTER SHALL BE +48" AFF (UNO).
• • FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU
• • SPECIAL RECEPTACLE, NUMBER REFERS TO "NEMA" CONFIGURATION. MOUNT AT +18" AFF TO CENTER OF RECEPTACLE (UNO).
• • FOURPLEX RECEPTACLE MOUNTED AT +18" AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48" AFF (UNO)
• • FLUSH MOUNT COMBINATION POWER AND VOICE/DATA FLOORBOX.
• SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +48" AFF TO CENTER OF SWITCH.
• • WALL MOUNTED OCCUPANCY SENSOR SWITCH. MOUNT AT +48" AFF TO CENTER OF SWITCH.
• • WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48" AFF TO CENTER OF SWITCH.
• • WALL MOUNTED LOW VOLTAGE SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48" AFF TO CENTER OF SWITCH.
• • CEILING MOUNTED OCCUPANCY SENSOR.
• • ROOM CONTROLLER/POWER PACK FOR LIGHT FIXTURE CONTROL. DEVICE SHALL BE CONCEALED IN CEILING.
• • VOICE OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
• • DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
• • COMBINATION VOICE/DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48" AFF (UNO).
• • FLUSH FLOOR MOUNT VOICE/DATA OUTLET MOUNTED IN PVC FLOORBOX.
• • DISCONNECT SWITCH, STARTER, & COMBINATION STARTER/DISCONNECT SWITCH. SIZE AS INDICATED ON DRAWINGS.
• • ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT
• • JUNCTION BOX
NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.
REFER TO LIGHTING CONTROL DEVICE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

WIRING LEGEND:

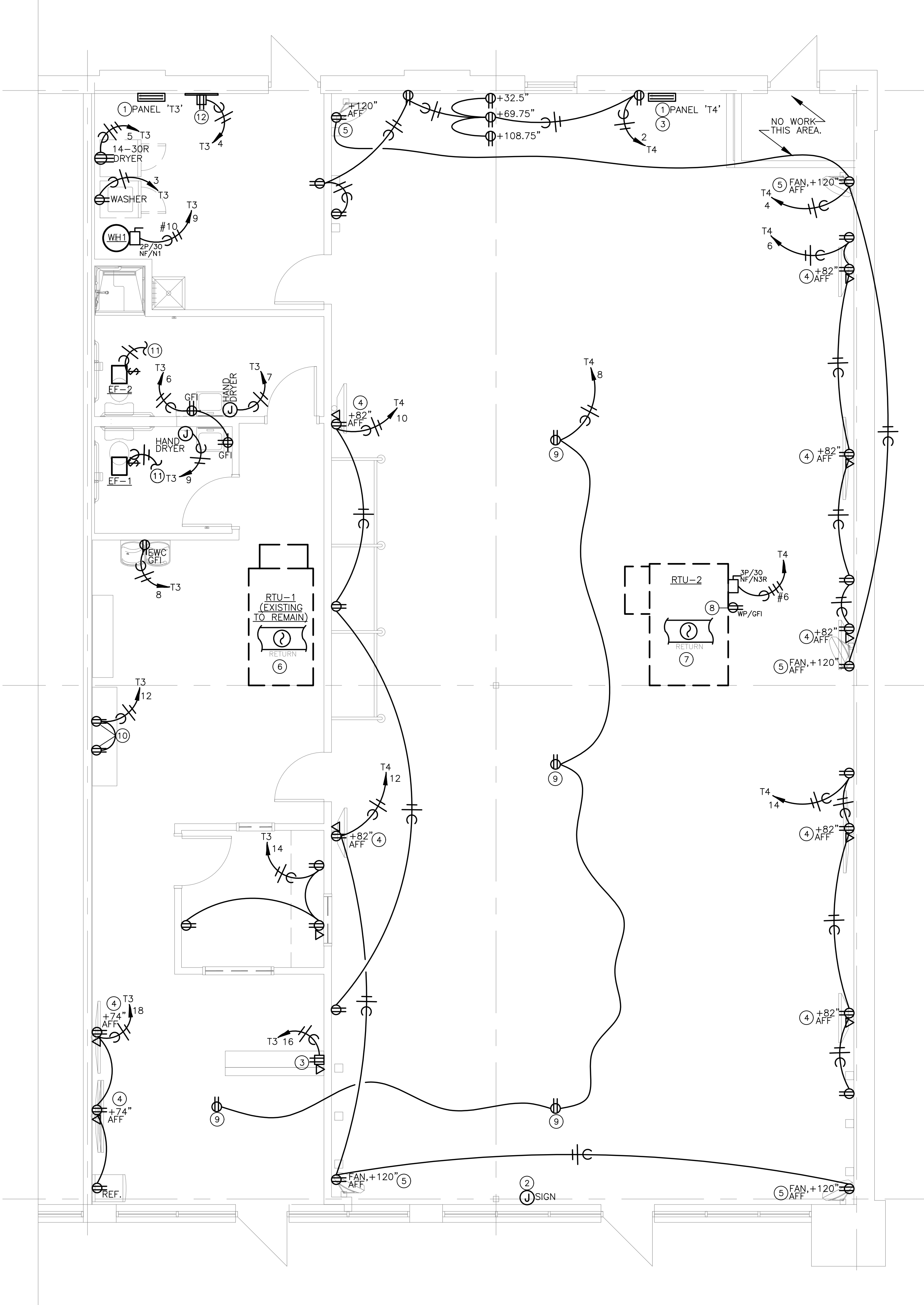
- HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS. WHEN NO WIRING TICK MARKS ARE SHOWN, CONTRACTOR SHALL ASSUME MINIMUM OF (3) #12 CONDUCTORS.
— GROUNDED CONDUCTOR.
— CONDUIT OR CIRCUIT BREAK/CONTINUATION.
— CONDUIT WITH ENDCAP FOR FUTURE USE.
— GROUNDING SOURCE.

FIRE ALARM LEGEND:

- • SMOKE DETECTOR / HEAT DETECTOR
• • COMBINATION AUDIO/VISUAL DEVICE, +80" AFF
• • VISUAL DEVICE, +80" AFF
• • PULL STATION, +48" AFF
• • FIRE/SMOKE DAMPER
• • SPRINKLER FLOW AND TAMPER SWITCH
• • SUPPLY DUCT/PLENUM MOUNT SMOKE DETECTOR
• • RETURN DUCT/PLENUM MOUNT SMOKE DETECTOR
• • FIRE ALARM CONTROL PANEL
• • FIRE ALARM ANNUNCIATOR PANEL
• • FIRE ALARM DOOR HOLD
• • FIRE ALARM DOOR RELEASE
• • FIRE SPRINKLER FLOW/TAMPER SUPERVISORY PANEL. PROVIDE (2) DEDICATED PHONE LINES AS REQUIRED.
• • DACT

ABBREVIATIONS LEGEND:

- AFF ABOVE FINISHED FLOOR
ED EXISTING TO BE DEMOLISHED
EM EMERGENCY
ER EXISTING TO BE REPLACED
ETR EXISTING TO REMAIN
GFCI GROUND FAULT CURRENT INTERRUPTER
NL NIGHT LIGHT
TR TAMPER RESISTANT
UNO UNLESS NOTED OTHERWISE
WP WEATHER PROTECTED COVER / GFCI



1 ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"



ELECTRICAL GENERAL NOTES:

- REFERENCE SHEET E3.0 FOR ELECTRICAL GENERAL NOTES.

ELECTRICAL POWER PLAN NOTES:

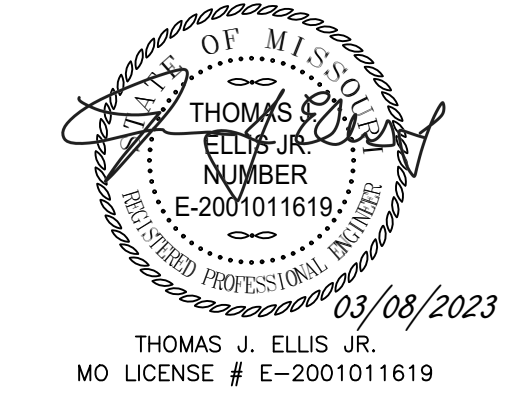
- EXISTING 200A 120/208V BRANCH PANEL SHALL REMAIN AND RE-USED IN NEW CONSTRUCTION.
- EXISTING JUNCTION BOX IN CANOPY FOR STORE SIGNAGE. CONFIRM ACTUAL SIGN LOCATION IN FIELD. MAINTAIN CIRCUITING AND TIMECLOCK ABOVE PANEL 'T4'.
- COORDINATE RECEPTACLE AND DATA OUTLET LOCATION WITH CASEWORK INSTALLER AND SHOP-DRAWINGS.
- COORDINATE T.V. RECEPTACLE AND DATA STUB HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- COORDINATE FAN RECEPTACLE HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- DUCT SMOKE DETECTOR ON EXISTING RTU TO REMAIN. RELOCATE 'TEST/RESET' BUTTON INTO OFFICE IN ACCESSIBLE LOCATION.
- DUCT SMOKE DETECTOR ON NEW RTU. INSTALL 'TEST/RESET' BUTTON IN OFFICE IN ACCESSIBLE LOCATION.
- CONNECT 120V CIRCUIT TO WP/GFI RECEPTACLED PROVIDED WITH RTU.
- RECEPTACLE AT STRUCTURE FOR CAMERA. FINAL LOCATION TO BE DETERMINED IN FIELD.
- (2) RECEPTACLES MOUNTED AT 6'-6" WITH EACH LOCATED 12" OFF OF THE CENTERLINE OF THE LOCKER/CUBBIE CABINET.
- CONNECT EXHAUST FAN TO SWITCHED RESTROOM LIGHTING CIRCUIT. VERIFY OCC. SENSOR SWITCH IS CAPABLE OF CONTROLLING EXHAUST FAN.
- NEW QUAD RECEPTACLE AND 2'x4'x3/4" SHEET OF PLYWOOD FOR TELCO BACKBOARD. CONFIRM LOCATION WITH TENANT.

Tenant Improvements For:

Date: 03/08/23
Issued For: For Permit

REVISIONS

No.	Date	Description



PROJECT TEAM

ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
MECHANICAL	5BY5 ENGINEERS
PLUMBING	5BY5 ENGINEERS
ELECTRICAL	5BY5 ENGINEERS
CONTRACTOR	HAWTHORN PROJECTS

1100 Main Street, 4th Floor
Kansas City, MO 64105
Kansas COA: E-2361
913-693-9449
contact@5by5eng.com
5by5eng.com

5BY5 ENGINEERS

NO. E1.0

LIGHT FIXTURE SCHEDULE										
TYPE	MANUFACTURER	MODEL	LIGHT SOURCE	WATTS	VOLTAGE	COLOR TEMP	DIMMABLE	FINISH	DESCRIPTION	NOTES
A	WARELIGHT	BEAMLED8-DID-130W-3CT-DMV-WH	INTEGRAL LED	130	UNV	3500	0/10V	WHITE	8' DIRECT/INDIRECT LINEAR PENDANT HUNG FROM STRUCTURE. CONFIRM MOUNTING HEIGHT WITH TENANT.	1-4
B	WARELIGHT	BEAMLED4-DID-65W-3CT-DMV-WH	INTEGRAL LED	65	UNV	3500	0/10V	WHITE	4' DIRECT/INDIRECT LINEAR PENDANT HUNG FROM STRUCTURE. CONFIRM MOUNTING HEIGHT WITH TENANT.	1-4
C	LOTUS LED LIGHTING	LD4R-D5K-HO-4R-4R-BR-WT	INTEGRAL LED	18	UNV	3500	0/10V	WHITE	4.5" WET LOCATION APPROVED CAN LIGHT FIXTURE.	1-4
EM	LITHONIA QUANTUM SERIES	ELM2 LED	INTEGRAL LED	2.2	UNV	NA	NA	WHITE	EMERGENCY WALL MOUNTED FIXTURE. FIXTURE SHALL BE PROVIDED WITH INTEGRAL EMERGENCY 90 MINUTE BATTERY PACK.	1-4
X1	LITHONIA QUANTUM SERIES	LQM-R LED	INTEGRAL LED	3	UNV	NA	NA	WHITE	SINGLE FACE LED EXIT LIGHT FIXTURE WITH BATTERY PACK, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-4
X1EM	LITHONIA QUANTUM SERIES	LHQM'R LED	INTEGRAL LED	3.8	UNV	NA	NA	WHITE	COMBINATION EMERGENCY EGRESS /SINGLE FACE LED EXIT LIGHT FIXTURE WITH BATTERY PACK, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-4
X1EMR	LITHONIA QUANTUM SERIES	LHQM-R-HO-RO LED WITH WLA-T-Q REMOTE HEAD	INTEGRAL LED	3.8	UNV	NA	NA	WHITE	COMBINATION EMERGENCY EGRESS /SINGLE FACE LED EXIT LIGHT FIXTURE WITH HIGH OUTPUT BATTERY PACK FOR REMOTE HEADS, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-4
NOTES:										
1. COORDINATE ALL LIGHT FIXTURE SELECTIONS AND/OR SUBSTITUTIONS WITH ARCHITECT, OWNER AND/OR ENGINEER PRIOR TO ORDER.										
2. PROVIDE LIGHTING CONTROLS THAT ARE COMPATIBLE WITH FIXTURES PROVIDED.										
3. COORDINATE WITH ARCHITECT, OWNER AND/OR ENGINEER FOR DIMMING REQUIREMENTS PRIOR TO INSTALLATION.										
4. PROVIDE ALL COMPONENTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.										

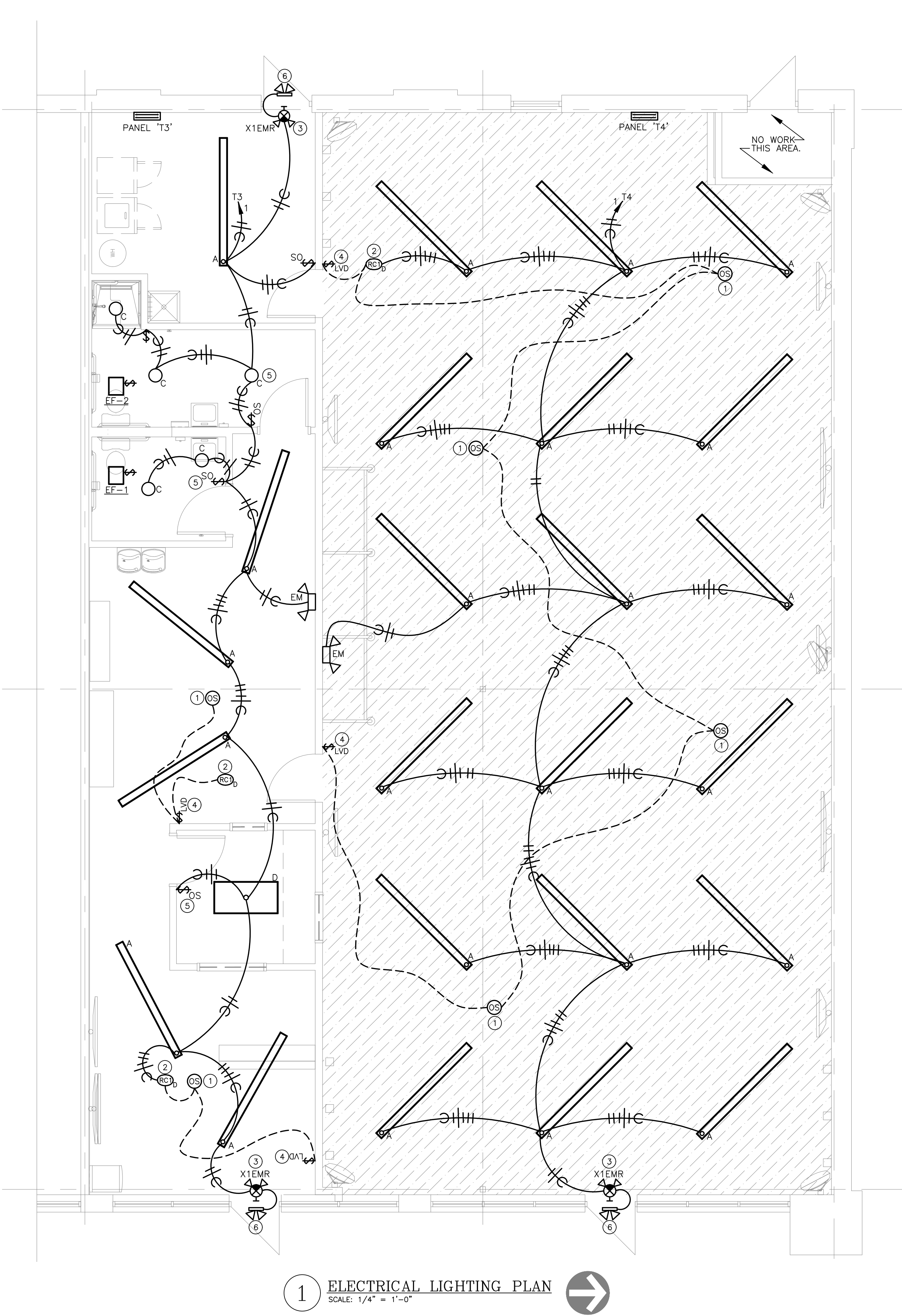
LIGHTING CONTROL DEVICE SCHEDULE									
TAG	MANUFACTURER AND MODEL SERIES		COVERAGE AREA (WxD OR RADIUS Ø)	VOLTAGE	MODE SETTINGS	DIMMING	TIME DELAY	DEVICE FINISH COLOR	SENSOR NOTES
WALL SWITCH OCCUPANCY SENSORS									
S OS	WATTSTOPPER PW-301	SINGLE-RELAY PASSIVE INFRARED OCCUPANCY SENSOR WALL SWITCH WITH MANUAL OVERRIDE BUTTON.	MAJOR 30' x 35' MINOR 15' x 20'	120/277V	MANUAL ON AUTO OFF	N/A	15 MIN	WHITE	1
S OS2	WATTSTOPPER DW-100	SINGLE-RELAY DUAL TECHNOLOGY PASSIVE INFRARED OCCUPANCY SENSOR WALL SWITCH WITH MANUAL OVERRIDE BUTTON.	MAJOR 30' x 35' MINOR 15' x 20'	120/277V	MANUAL ON AUTO OFF	N/A	15 MIN	WHITE	1
CEILING MOUNTED DAYLIGHT / OCCUPANCY SENSORS									
OS	WATTSTOPPER LMDC-100	CEILING MOUNT ULTRASONIC DIGITAL OCCUPANCY SENSOR. 360 DEGREE COVERAGE. PLUG-AND-PLAY CONFIGURATION, (2) RJ45 PORTS, LCD DISPLAY, IR RECEIVER, CONFIGURATION BUTTONS.	ULT MAJOR 25' X 25' PIR 32' Ø	24V	-	-	-	WHITE	2
POWER SUPPLIES/ROOM CONTROLLERS									
RC1-D	WATTSTOPPER LMRC-211	DIGITAL SINGLE-RELAY ON/OFF/DIMMING ROOM CONTROLLER. 0-10V DIMMING. MAXIMUM 20A TOTAL LOAD RATING. PLUG-AND-PLAY CONFIGURATION, (4) RJ45 PORTS, LED STATUS INDICATORS, CONFIGURATION BUTTONS, PLENUM RATED.	-	120/277V LOAD, 24VDC CONTROL OUTPUT	AUTO ON AT 50%, AUTO OFF		-	-	2,4
LOW VOLTAGE & LINE VOLTAGE SWITCHES AND DIMMERS									
D	WATTSTOPPER RH4FBL3PW	0-10V DIMMING WALL SWITCH.	-	120V/277V	-	0-10V	-	WHITE	2,3,4
LVD	WATTSTOPPER LMDM-101	DIGITAL DIMMING WALL SWITCH. LOWER CASE DESIGNATES LIGHTING ZONE CONTROLLED BY SWITCH & ROOM CONTROLLER.	-	24VDC	-		-	WHITE	2,3,4
LV	WATTSTOPPER LMSW-101	DIGITAL NON-DIMMING WALL SWITCH.	-	24VDC	-		-	WHITE	2,3,4
GENERAL NOTES:									
A. SENSOR LAYOUT BASED ON WATTSTOPPER COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR ALTERNATE MANUFACTURERS LISTED BELOW PER MANUFACTURER SPECIFIC SPACING CRITERIA.									
B. nLIGHT, SENSOR SWITCH, COOPER-GREENGATE, CRESTRON, HUBBELL BUILDING AUTOMATION, AND LEVITON ARE CONSIDERED EQUIVALENT MANUFACTURES FOR SUBMISSION AS AN APPROVED MANUFACTURER, CONTINGENT ON LISTINGS APPROPRIATE FOR THE APPLICATION.									
C. DURING SHOP DRAWINGS, PROVIDE LIGHTING PLANS SHOWING LOCATION, MOUNTING HEIGHT, ORIENTATION AND COVERAGE AREAS FOR EACH OCCUPANCY SENSOR FOR REVIEW AND APPROVAL BY ENGINEER. ALSO INCLUDE ON PLANS OTHER CEILING MOUNTED SYSTEMS, SHOWING COORDINATION WITH CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, AND LIGHT									
D. PROVIDE ALL SENSORS BY THE SAME MANUFACTURER.									
E. PROVIDE COPIES OF SENSOR AND POWER SUPPLY OPERATION INSTRUCTIONS TO OWNER.									
F. PROVIDE WALL SWITCH AND CEILING SENSORS WITH AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO.									
G. DO NOT INSTALL LINE VOLTAGE SENSORS ON GFCI PROTECTED CIRCUITS.									
H. FIELD-SET DEVICES TO THE ON MODE INDICATED IN TABLE, DISABLE ANY VISIBLE/AUDIBLE ALERT SETTINGS, AND SET SENSITIVITIES TO MAXIMUM LEVELS.									
I. PROVIDE ALL LOW VOLTAGE WIRING BETWEEN SENSORS, DEVICES, AND POWER SUPPLIES AS REQUIRED AND PER MANUFACTURER RECOMMENDATIONS.									
J. WHERE OCCUPANCY SENSORS USE BOTH PIR AND ULTRASONIC TECHNOLOGIES, PROGRAM OFF MODES (MAINTAIN OCCUPANCY AND RE-TRIGGER) TO TRIGGER ON A SIGNAL FROM EITHER TECHNOLOGY.									
K. WHERE MULTIPLE LOW VOLTAGE SWITCHES ARE CONNECTED WITHIN THE SAME SPACE, PROGRAM THE SWITCHES TO CONTROL THE LIGHTING IN THE EXACT SAME MANNER, UNO.									
SENSOR NOTES:									
1. CONNECT NEUTRAL CONDUCTOR TO SENSOR.									
2. NETWORK WITH OTHER 'DLM' COMPONENTS USING PRE-TERMINATED CAT 5e CABLING WITH RJ-45 JACKS.									
3. PROVIDE PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND TO ROOM CONTROLLER.									
4. 0-10V DIMMING CONDUCTORS SHALL BE CLASS 2 CABLE WITH (2) #18 CU PER UL REQUIREMENTS.									

ELECTRICAL GENERAL NOTES:

- REFERENCE SHEET E3.0 FOR ELECTRICAL GENERAL NOTES.

ELECTRICAL LIGHTING PLAN NOTES:

- LOW VOLTAGE OCCUPANCY SENSOR MOUNTED AT CEILING/STRUCTURE. PROVIDE CATAGORY CABLE BACK TO ROOM CONTROL MONDULE. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.
- ROOM CONTROL MODULE MOUNTED ABOVE CEILING (AT STRUCTURE) IN ACCESSIBLE LOCATION. PROVIDE CONTROLLED WIRING TO LIGHTING IN AREA. PROVIDE (2) #18 0-10V DIMMING CONDUCTORS TO EACH LIGHT FIXTURE FROM ROOM CONTROLLER.
- ROUTE UNSWITCHED HOT TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
- PROVIDE DIMMING LOW VOLTAGE PADDLE SWITCH AND CONNECT TO ROOM CONTROLLER WITH CATAGORY CABLE. REFERENCE LIGHTING CONTROL SCHEDULE FOR FURTHER INFORMATION.
- PROVIDE NEW OCCUPANCY SENSING WALL MOUNTED LIGHT SWITCH. REFERENCE LIGHTING CONTROL DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
- EXTERIOR REMOTE EMERGENCY EGRESS FIXTURE MOUNTED ABOVE EXTERIOR EGRESS DOOR. FIXTURE SHALL BE POWERED OFF OF EXIT FIXTURE HIGH OUTPUT BATTERY.



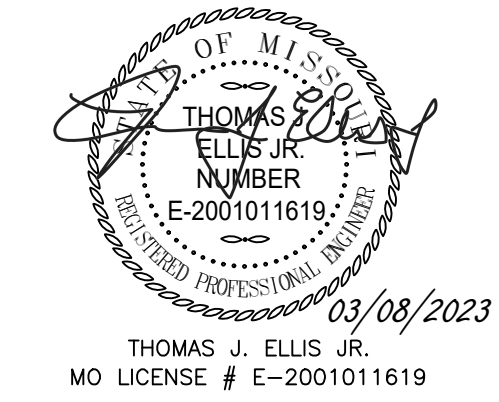
1 ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

Tenant Improvements For:

Date: 03/08/23
Issued For: For Permit

REVISIONS

No.	Date	Description



PROJECT TEAM	
ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
MECHANICAL	5BY5 ENGINEERS
PLUMBING	5BY5 ENGINEERS
ELECTRICAL	5BY5 ENGINEERS
CONTRACTOR	HAWTHORN PROJECTS

1100 Main Street, 4th Floor
Kansas City, MO 64105
Kansas COA: E-2361
913-693-9449
contact@5by5eng.com
5by5eng.com

5BY5 ENGINEERS

NO. **E2.0**

PANELBOARD PANEL 'T3' (EXISTING)																	
BUS AMPS:		225A		LOCATION:		ELECTRICAL ROOM		GROUND BUS:		YES							
MAIN SIZE / TYPE:		MLO		NEMA RATING:		NEMA 1		ISOL. GROUND BUS:		NO							
VOLTS/PHASE:		208Y/120V, 3PH, 4W		AFC VALUE:				FEED THRU LUGS:		NO							
MOUNTING:		SURFACE		AIC RATING:		22k AIC		SECTIONS:		1 OF 1							
CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	P	WIRE SIZE	NOTES	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	NOTES	WIRE SIZE	BREAKER P	AMPS	CIRCUIT DESCRIPTION	CKT #	
1	LIGHTING	20	1			800	1,300			500			1	20	SIGN CIRCUIT (EXISTING)	2	
3	CLOTHES WASHER	20	1			1,000		1,360		360			1	20	RECEPTACLE - TELCO BOARD	4	
5	CLOTHES DRYER	30	2	#10		2,000			2,360	360			1	20	RECEPTACLES - RESTROOMS	6	
7	-	-	-			2,000	2,180			180			1	20	RECEPTACLE - ELEC. WATER COOLER	8	
9	WATER HEATER (WH1)	30	2	#10		1,900		2,440		540			1	20	RECEPTACLE - LOBBY	10	
11	-	-	-			1,900			2,260	360			1	20	RECEPTACLES - CUBBIES	12	
13	SPARE	20	1			0	540			540			1	20	RECEPTACLES - OFFICE	14	
15	SPARE	20	1			0		0		0			1	20	RECEPTACLES - RECEPTION DESK	16	
17	SPARE	20	1			0			0	0			1	20	SPARE	18	
19	SPARE	20	1			0	0			0			1	20	SPARE	20	
21	SPARE	20	1			0		0		0			1	20	SPARE	22	
23	SPARE	20	1			0			0	0			1	20	SPARE	24	
25	SPARE	20	1			0	0			0			1	20	SPARE	26	
27	SPARE	20	1			0		0		0			1	20	SPARE	28	
29	SPARE	20	1			0			0	0			1	20	SPARE	30	
31	SPARE	20	1			0	0			0			1	20	SPARE	32	
33	SPARE	20	1			0		0		0			1	20	SPARE	34	
35	SPARE	20	1			0			0	0			1	20	SPARE	36	
37	SPARE	20	1			0	3,000			3,000			-	-	-	38	
39	SPARE	20	1			0		3,000		3,000	ETR		3	45	ROOF TOP UNIT 'RTU-2' (EXISTING)	40	
41	SPARE	20	1			0			3,000	3,000			-	-	-	42	
PER PHASE SUB-TOTALS							7,020	6,800	7,620								
TOTAL CONNECTED PANELBOARD (VA)							21,440			LEGEND:							
TOTAL CONNECTED PANELBOARD (AMPS)							60			TS - VIA TIME SWITCH							
TOTAL PANELBOARD DEMAND (VA)							13,965			FA - FIRE ALARM / RED / LOCKING TAB							
TOTAL PANELBOARD DEMAND (AMPS)							39			EM - EMERGENCY LTG. / LOCKING TAB							
										FP - REFER TO FLOOR PLAN DRAWING.							
										OL - RE: ONE-LINE DIAGRAM							
										ETR - EXISTING TO REMAIN							

PANELBOARD PANEL 'T4' (EXISTING)																	
BUS AMPS:		225A		LOCATION:		REAR OF STUDIO ROOM		GROUND BUS:		YES							
MAIN SIZE / TYPE:		MLO		NEMA RATING:		NEMA 1		ISOL. GROUND BUS:		NO							
VOLTS/PHASE:		208Y/120V, 3PH, 4W		AFC VALUE:				FEED THRU LUGS:		NO							
MOUNTING:		SURFACE		AIC RATING:		22k AIC		SECTIONS:		1 OF 1							
CKT #	CIRCUIT DESCRIPTION	BREAKER		WIRE SIZE	NOTES	LOAD (VA)	CONNECTED PER PHASE (VA)			LOAD (VA)	NOTES	WIRE SIZE	BREAKER		CIRCUIT DESCRIPTION	CKT #	
		AMPS	P				A	B	C				P	AMPS			
1	LIGHTING	20	1			1,200	2,460			1,260			1	20	RECEPTACLES	2	
3	SPARE	20	1			0		540		540			1	20	RECEPTACLES	4	
5	SPARE	20	1			0			900	900			1	20	RECEPTACLES	6	
7	SPARE	20	1			0	720			720			1	20	RECEPTACLES - SEC. CAMERAS	8	
9	SPARE	20	1			0		540		540			1	20	RECEPTACLES	10	
11	SPARE	20	1			0			540	540			1	20	RECEPTACLES	12	
13	SPARE	20	1			0	720			720			1	20	RECEPTACLES	14	
15	SPARE	20	1			0		0		0			1	20	SPARE	16	
17	SPARE	20	1			0			0	0			1	20	SPARE	18	
19	SPARE	20	1			0	0			0			1	20	SPARE	20	
21	SPARE	20	1			0		0		0			1	20	SPARE	22	
23	SPARE	20	1			0			0	0			1	20	SPARE	24	
25	SPARE	20	1			0	0			0			1	20	SPARE	26	
27	SPARE	20	1			0		0		0			1	20	SPARE	28	
29	SPARE	20	1			0			0	0			1	20	SPARE	30	
31	-	-	-			7,020	7,020			0			1	20	SPARE	32	
33	PANEL 'T3' (EXISTING)	100	3			6,800		6,800		0			1	20	SPARE	34	
35	-	-	-			7,620			7,980	360			1	20	SPARE	36	
37	SPARE	20	1			0	5,000			5,000			-	-	-	38	
39	SPARE	20	1			0		5,000		5,000		#6	3	60	ROOF TOP UNIT 'RTU-2'	40	
41	SPARE	20	1			0			5,000	5,000			-	-	-	42	
PER PHASE SUB-TOTALS							15,920	12,880	14,420								
TOTAL CONNECTED PANELBOARD (VA)							43,220			LEGEND:							
TOTAL CONNECTED PANELBOARD (AMPS)							120			TS - VIA TIME SWITCH							
TOTAL PANELBOARD DEMAND (VA)							36,045			FA - FIRE ALARM / RED / LOCKING TAB							
TOTAL PANELBOARD DEMAND (AMPS)							100			EM - EMERGENCY LTG. / LOCKING TAB							
							FP - REFER TO FLOOR PLAN DRAWING.										
							ST - SHUNT TRIP										
							LCK - LOCKING TAB										
							GF - GROUND FAULT INTERRUPTER										
							OL - RE: ONE-LINE DIAGRAM										

ELECTRICAL GENERAL DEMOLITION NOTES:

- REFERENCE ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ARCHITECT, ENGINEER, AND/OR OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOBSITE CONDITIONS PRIOR TO SUBMITTING BID.
- COORDINATE DEMOLITION AND REMOVAL OF EXISTING EQUIPMENT AND LIGHTING SYSTEMS WITH ARCHITECTURAL PHASING DRAWINGS AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, DISPOSE OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHOWN TO BE REMOVED. COORDINATE WITH THE OWNER THE ITEMS TO BE SALVAGED, AND THE LOCATION FOR STORAGE. AVOID DAMAGING SALVAGED ITEMS DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- WHERE ALTERATION OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, OR WIRING DEVICES AFFECTS EXISTING SURFACES/FINISHES: REPAIR/PAINT AFFECTED SURFACE TO MATCH EXISTING ADJACENT SURFACE IN ACCORDANCE WITH OWNER REQUIREMENTS. MAINTAIN FIRE RATING OF ALL FLOORS, WALLS, AND CEILINGS THAT ARE RATED.
- WHERE DEMOLITION WORK INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE: PROVIDE NECESSARY DEVICES AND RELATED CIRCUITRY TO MAINTAIN ELECTRICAL CONTINUITY IN ACCORDANCE WITH OWNER REQUIREMENTS. RE-CIRCUIT REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND WIRING DEVICES PREVIOUSLY POWERED FROM DEMOLISHED EQUIPMENT TO NEW OR TEMPORARY EQUIPMENT AS NEEDED.
- COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED / REMOVED / RELOCATED WITH OTHER TRADES PRIOR TO START OF WORK. REMOVE ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, WIRING DEVICES, AND RELATED CIRCUITRY NOT BEING REUSED IN ALL ACCESSIBLE AREAS INCLUDING FLOORS, WALLS, AND CEILINGS THAT ARE TO BE REMOVED.
- ELECTRICAL EQUIPMENT, RACEWAYS, AND RELATED CIRCUITRY ABANDONED IN PLACE SHALL BE PERMANENTLY DISCONNECTED FROM ALL POWER SOURCES, INSULATED FROM CONTACT WITH OTHER LIVE ELECTRICAL WIRING/DEVICES, AND IDENTIFIED AT TERMINATIONS AS NO LONGER BEING IN SERVICE. CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.

ELECTRICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). PRIOR TO BID, CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- ELECTRICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS FOR SPECIFIC CODE REFERENCES.
- COORDINATE ELECTRICAL WORK WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ETC.).
- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. DEVICE COLOR SHALL WHITE. DEVICE PLATES SHALL BE PLASTIC ON GYPBOARD WALLS AND STAINLESS STEEL ON TILED WALLS.
- ELECTRICAL CONTRACTOR SHALL INSPECT ALL ELECTRICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC (EMT) CONDUIT, AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER PER THE RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC). CONDUIT SHALL BE 1/2" MINIMUM USING STEEL SET-SCREW FITTINGS. HOME RUNS SHALL CONFORM TO NEC REQUIREMENTS FOR CONDUIT FILL, AND SHALL CONTAIN NO MORE THAN 6 CURRENT CARRYING CONDUCTORS. IF NEUTRALS ARE SHARED FOR ANY REASON, CIRCUIT BREAKER TIE HANDLES SHALL BE INSTALLED AT THE PANEL.
- AT CONTRACTOR'S OPTION, MC CABLE CAN BE USED IN FURRED WALLS, ABOVE CEILINGS AND IN OTHER CONCEALED SPACES WHERE ALLOWED BY NEC. MC CABLE MAY BE ROUTED EXPOSED IF ROUTED NEATLY ALONG BUILDING STRUCTURE AND TIGHTLY STRAPPED AND SUPPORTED.
- CONTRACTOR SHALL VERIFY ALL ROUGH-IN LOCATIONS AND QUANTITIES FOR GENERAL USE POWER AND DATA WITH OWNER AND/OR ARCHITECT PRIOR TO INSTALLATION.
- ALL CONDUCTORS SHALL BE COPPER WITH #12 AWG MINIMUM, (UNLESS NOTED OTHERWISE).
- CONTRACTOR SHALL LABEL ALL RECEPTACLES, BOXES, PANELBOARDS, ETC. WITH PANEL, CIRCUIT NUMBER, ETC. WITH PANEL AND CIRCUIT NUMBERS. RECEPTACLE COVERPLATES SHALL BE LABELED USING PRINTED LABEL WITH 1/2" HIGH LETTERS. COORDINATE WITH OWNER FOR FINAL PANEL AND EQUIPMENT DESIGNATIONS AND LABELING REQUIREMENTS.

To Be Located At:
Lee's Summit

1138 NE Douglas Street
Lee's Summit, MO 64086

Tenant Improvements For:

F45

Lee's Summit

Date:

03/08/23

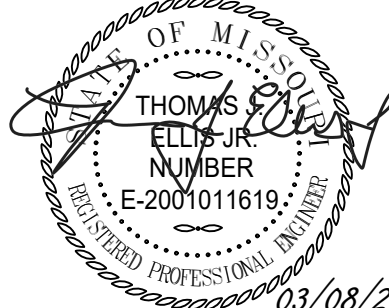
Issued

For:

For Permit

REVISIONS

No.	Date	Description



THOMAS J. ELLIS JR.
MO LICENSE # E-2001011619

PROJECT TEAM

ARCHITECT	MOMENTUM ARCHITECTURE+DESIGN
MECHANICAL	5BY5 ENGINEERS
PLUMBING	5BY5 ENGINEERS
ELECTRICAL	5BY5 ENGINEERS
CONTRACTOR	HAWTHORN PROJECTS

1100 Main Street, 4th Floor
Kansas City, MO 64105
Kansas COA: E-2361
913-693-9449
contact@5by5eng.com
5by5eng.com