

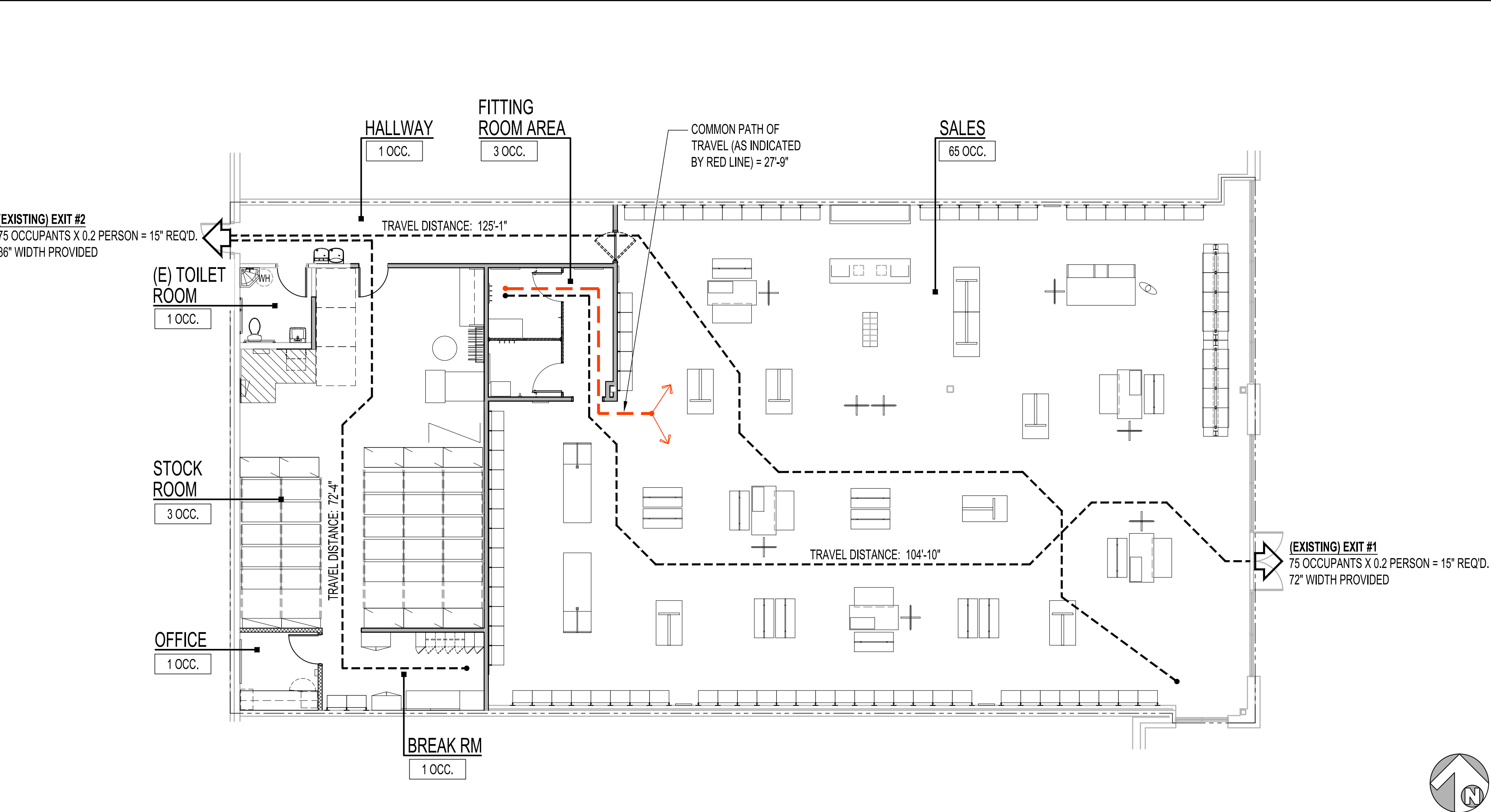
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SHEET INDEX	
FIXTURES - GRAND + BENEDICTS C: MOLLY CROUSER T: 503.233.6222 E: MOLLYC@GRAND-BENEDICTS.COM	SIGNAGE - VICTORY SIGN INDUSTRIES C: DANA REYNOLDS T: 706.820.6820 E: DREYNOLDS@VICTORYSIGN.COM
LIGHTING - CITY LIGHTING C: TOM MISPAGE T: 314.534.1090 E: TMISPAGE@CITYLIGHTING.COM	STOCK ROOM FIXTURES - PIPP MOBILE STORAGE SYSTEMS, INC. C: KATY LOWRY T: 616.988.4063 E: KLOWRY@PIPPMOBILE.COM
LOCKS / SAFE - REDFORD LOCK SECURITY SOLUTIONS C: DAVID BOILORE T: 313.401.7004 E: DBOILORE@REDLORDLOCK.COM	SENSORMATIC - JOHNSON CONTROLS C: MH TOTH T: 269.271.8401 E: MH.TOTH@JCI.COM

VENDOR CONTACTS	
LANDLORD - TENANT COORDINATOR SUMMIT WOODS CROSSING 1700 NW CHIPMAN RD LEE'S SUMMIT, MO 64081 C: JOSH GALICA E: JGALICA@RAINIERCOMPANIES.COM	PROGRAM MANAGER RGLA SOLUTIONS, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 C: SANDI LEAMON / ADRIAN TAFOLLA P: 847.707.7452 / 847.916.2728 E: SLEAMON@RGLA.COM / ATAFOLLA@RGLA.COM
TENANT / OWNER CARHARTT INC. 5750 MERCURY DRIVE DEARBORN, MI 48126 C: MARK KASTNER T: 313.212.7021 E: MKASTNER@CARHARTT.COM	MEP ENGINEER KLH ENGINEERS, PSC 333 EAST MAIN, SUITE 175 LEXINGTON, KY 40507 C: JORDAN LAYCOCK T: 859.547.0242 E: JLAYCOCK@KLHENGERS.COM
ARCHITECT JOSEPH A. GEOGHEGAN JR. ROBERT G. LYON & ASSOCIATES, INC. 5100 RIVER ROAD, SUITE 125 SCHILLER PARK, IL 60176 PLEASE CONTACT PROGRAM MANAGER FOR ALL INQUIRIES.	STRUCTURAL ENGINEER WALLACE DESIGN COLLECTIVE, PC 1703 WYANDOTTE STREET, SUITE 200 KANSAS CITY, MO 64108 C: DARCEY SCHUMACHER T: 816.820.0365 E: DARCEY.SCHUMACHER@WALLACE.DESIGN

UPON AWARDING THE GENERAL CONTRACTOR'S CONTRACT, THE GENERAL CONTRACTOR MUST INFORM THE OWNER (CARHARTT) IN WRITING OF ALL MATERIALS AND EQUIPMENT WITH LEAD TIMES OF 4 WEEKS OR GREATER
WORK UNDER SEPARATE PERMIT: <ul style="list-style-type: none">SPRINKLER WORKFIRE ALARMSTOREFRONT SIGNAGE
ALL MATERIAL SUBSTITUTIONS MUST OBTAIN OWNER AND ARCHITECT'S APPROVAL PRIOR TO COMMENCEMENT
GC SHALL PROVIDE CARPENTER ON-SITE FOR ONE EIGHT-HOUR DAY AFTER TURNOVER FOR MISCELLANEOUS TASKS.
REQUIRED SUBCONTRACTORS: VERIFY WITH MALL OPERATIONS MANAGER FOR ALL REQUIRED SUBCONTRACTORS.

ALL CHANGE ORDERS TO BE APPROVED BY CARHARTT - MARK KASTNER - IN WRITING PRIOR TO PROCEEDING WITH WORK. ANY WORK COMPLETED WITHOUT AN APPROVED CHANGE ORDER WILL NOT BE PAID.



SCOPE OF WORK STATEMENT THE INTENT OF THE SCOPE CONTAINED WITHIN THESE DOCUMENTS RELATES TO THE INTERIOR BUILD-OUT OF A MERCANTILE SPACE CONTAINED WITHIN AN EXISTING SHOPPING CENTER. PROPOSED WORK INCLUDES CONSTRUCTION AND INSTALLATION OF NEW NON-LOAD BEARING PARTITIONS, FIXTURES, FINISHES, LIGHTING, MECHANICAL, ELECTRICAL, AND PLUMBING.	PERMIT SCOPE INCLUDES ONLY CHECKED BOXES <input checked="" type="checkbox"/> BUILDING <input checked="" type="checkbox"/> MECHANICAL <input checked="" type="checkbox"/> ELECTRICAL <input checked="" type="checkbox"/> PLUMBING <input type="checkbox"/> SPRINKLER <input type="checkbox"/> STOREFRONT SIGN MALL TYPE <input type="checkbox"/> COVERED MALL BUILDING <input checked="" type="checkbox"/> EXTERIOR MALL <input type="checkbox"/> STREET LOCATION
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-	SCOPE OF WORK
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APPLICABLE CODES	
BUILDING:	2018 INTERNATIONAL BUILDING CODE
ELECTRICAL:	2017 NATIONAL ELECTRICAL CODE
MECHANICAL:	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING:	2018 INTERNATIONAL PLUMBING CODE
ACCESSIBILITY:	ICC/ANSI A117.1-2009
FIRE CODE:	2018 INTERNATIONAL FIRE CODE
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
EXISTING BUILDING CODE:	2018 INTERNATIONAL EXISTING BUILDING CODE

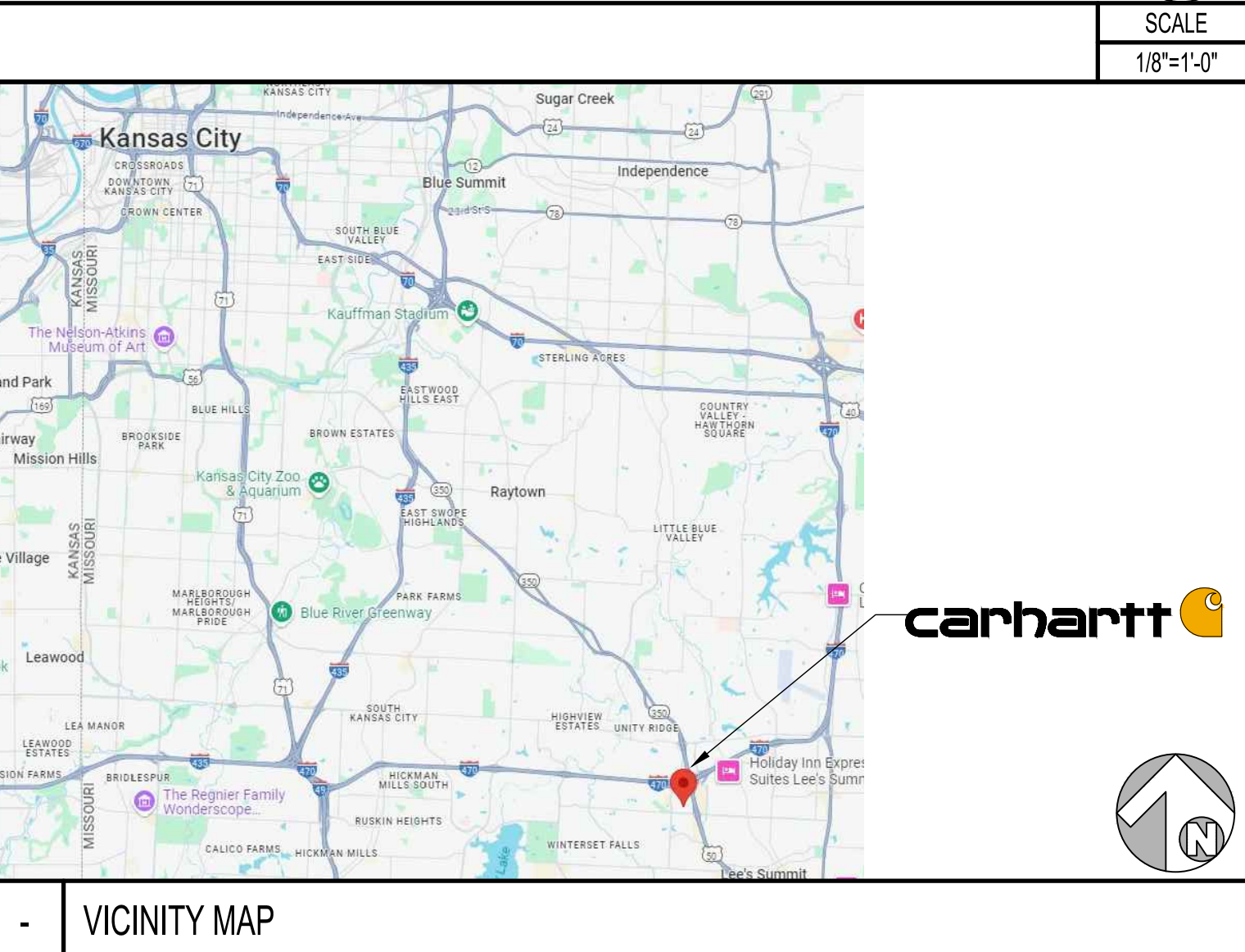
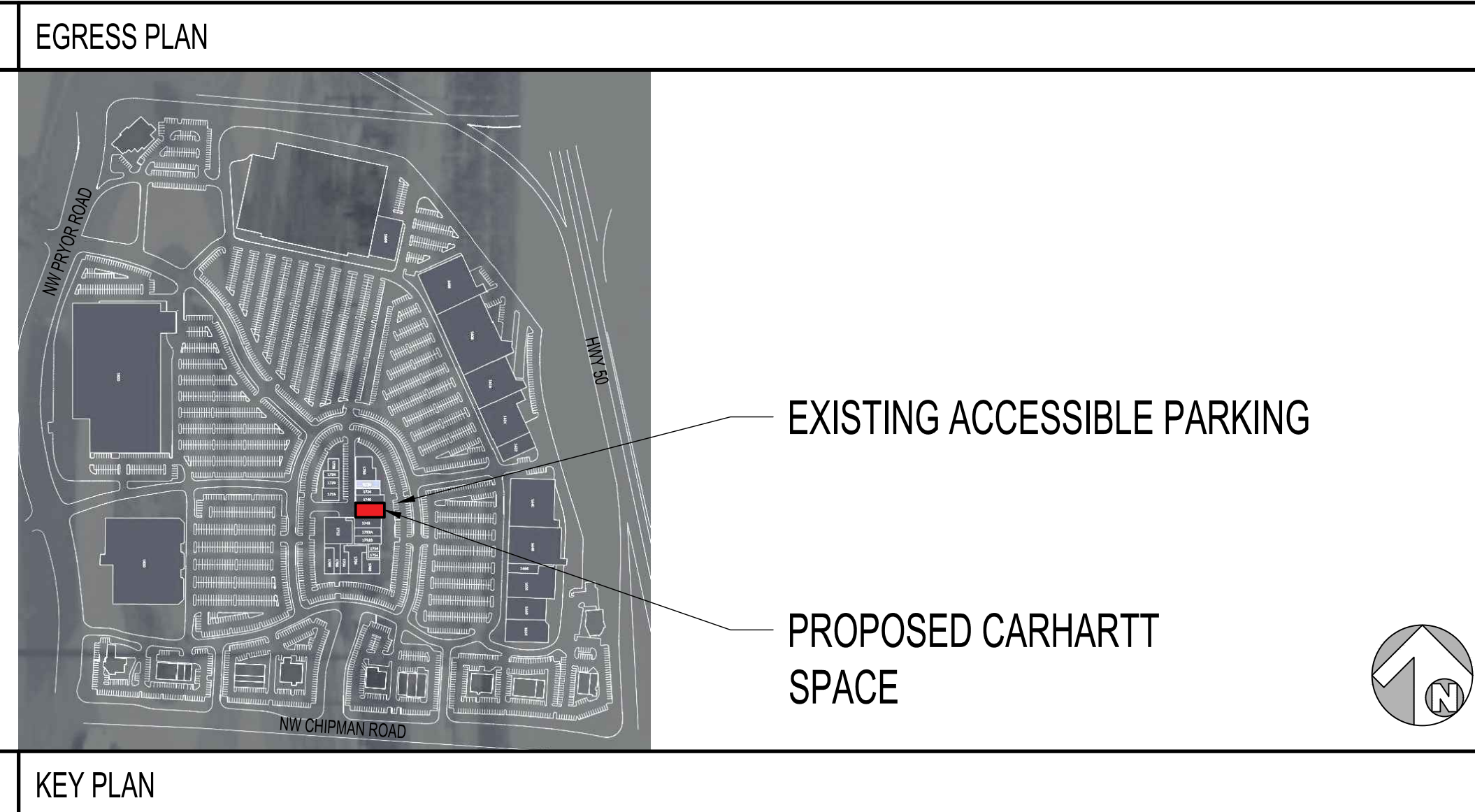
OCCUPANCY LOAD CALCULATIONS		
GROSS AREA:	5,510 SQ.FT. (LEASED AREA)	
SALES AREA:	3,871 SQ.FT. / 60 SQ.FT. PER PERSON =	65
FITTING ROOM AREA:	181 SQ.FT. / 60 SQ.FT. PER PERSON =	3
TOILET ROOM:	1 PRIVATE TOILET ROOM =	1
OFFICE	1 PRIVATE OFFICE =	1
HALLWAY	257 SQ.FT. / 300 SQ.FT. PER PERSON =	1
BREAK ROOM	181 SQ.FT. / 300 SQ.FT. PER PERSON =	1
STOCKROOM:	908 SQ.FT. / 300 SQ.FT. PER PERSON =	3
TOTAL OCCUPANCY:		75 PERSONS

BUILDING REQUIREMENTS		
DESCRIPTION	CODE SECTION	REQUIREMENTS
USE GROUP:	IBC CHAPTER 3, SECTION 309	M (MERCANTILE)
NUMBER OF LEVELS:		LOCATED ON GROUND LEVEL OF 1 LEVEL
CONSTRUCTION TYPE:	IBC TABLE 601	TYPE II B
FIRE SPRINKLERS:	IBC SECTIONS 506.3, 903.1	FULLY SPRINKLERED
TENANT AREA:	IBC SECTION 507.3	5,510 SQ.FT. AREA OF WORK
OCCUPANT LOAD:	IBC SECTION 1004.1 & NFPA 101	75 PERSONS
NUMBER OF EXITS:	IBC TABLE 1006.3	2 REQUIRED
EXIT WIDTH:	IBC TABLE 1005.1	30" REQUIRED 108" PROVIDED

-	CODE AND BUILDING SUMMARY
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STATEMENT OF COMPLIANCE I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE CODES AND ORDINANCES OF LEE'S SUMMIT, MO.	JOSEPH A. GEOGHEGAN JR. LICENSE #: A-2008008193 EXPIRATION DATE: 12/31/2026	SEAL:
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-	CERTIFICATION STATEMENT
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SUMMIT WOODS CROSSING

1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081



r gla solutions, inc.
5100 River Road, Ste 125
Schiller Park, IL 60176
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f: 847.671.4200
www.r gla.com

REVISIONS:	DATE:
ISSUE FOR PERMIT	06/18/25
LANDLORD PRICING	
REV 1 - PERMIT	07/21/25
REVISIONS	

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JOSEPH A. GEOGHEGAN JR.
ARCHITECT
NUMBER: A-2008008193

THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THIS OFFICE, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN THE CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THIS OFFICE. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE DRAWINGS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTICED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
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SUMMIT WOODS CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

COVER SHEET, CODE INFORMATION, PROJECT DATA, & DIRECTORY

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	G-0.0

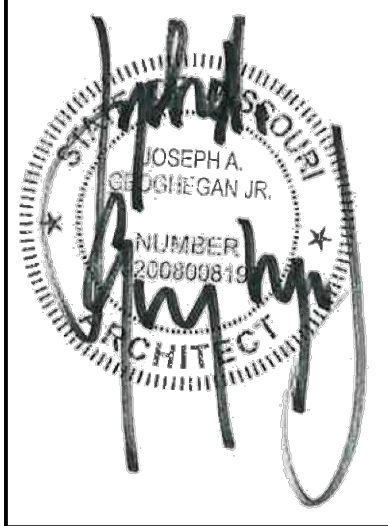


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REVISIONS:	DATE:
ISSUE FOR PERMIT LANDLORD, PRICING	06/18/25

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retail architect & interior
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Schiller Park, IL 60176
p: 847.671.7452
f: 847.671.4200
www.rgla.com



THE ABOVE DRAWINGS AND SPECIFICATIONS AND DESIGNATIONS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THIS OFFICE, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS, OR USED IN THE CONNECTION WITH ANY PROJECT OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DELIVERED WITHOUT THE WRITTEN CONSENT OF THIS OFFICE. VISUAL CONTACT WITH THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF THIS OFFICE SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MAY BE NOTICED OF ANY VIOLATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
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carhartt
SUMMIT WOODS
CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

SPECIFICATIONS &
GENERAL NOTES

DRAWN BY SLS
CHECKED BY SL
JOB NUMBER 25303
SHEET NAME

G-0.1

DIVISION 01: GENERAL REQUIREMENTS:

- GENERAL: THESE DRAWINGS AND SPECIFICATIONS INCLUDING DESIGNS AND IDEAS REPRESENTED THEREON ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONJUNCTION WITH ANY WORK OR PROJECT EXCEPT THOSE FOR WHICH THEY HAVE BEEN DEVELOPED AND PREPARED, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THE DRAWINGS AND SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE TERM "GENERAL CONTRACTOR" USED IN THESE DOCUMENTS REFER TO TENANTS AS WELL AS LANDLORDS GENERAL CONTRACTOR.
 - THE WORK UNDER THIS CONTRACT COMPRISES THE BUILD-OUT OF A NEW RETAIL STORE FOR CARHARTT (SEE PLANS FOR SQUARE FOOTAGE AND EXACT SCOPE OF WORK).
 - THE LANDLORD/TENANT GENERAL CONTRACTORS SHALL VISIT THE SITE TO VERIFY ANY EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BID/PROPOSAL AND REPORT TO THE ARCHITECT ANY DISCREPANCIES OR CONDITIONS WHICH MAY INTERFERE WITH THE EXECUTION OF THE DEPICED WORK. EXTRAS WILL NOT BE ALLOWED FOR UNREPORTED DISCREPANCIES OR CONDITIONS.
 - THE GENERAL CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANIES TO VERIFY ALL ELEVATIONS, SIZES, LOCATIONS AND CONNECTION POINTS FOR ALL UTILITIES AFFECTED BY THIS PROJECT. THE GENERAL CONTRACTOR SHALL COORDINATE AND OBTAIN ALL APPLICATIONS FOR AND ENFORCE ALL UTILITIES ARE TURNED ON PRIOR TO COMPLETION OF WORK.
 - CONTRACTOR TO PROVIDE ALL SUB-CONTRACTORS WITH A COMPLETE SET OF THE MOST CURRENT CONSTRUCTION DOCUMENTS.
- CONTRACTS: THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS' "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (A201)" ARE HEREBY MADE A PART OF THESE DRAWINGS AND SPECIFICATIONS, AS WELL AS THE CONTRACT FOR CONSTRUCTION BY REFERENCE AND THEY SHALL BE LEGALLY ENFORCEABLE TO THE SAME DEGREE AND EXTENT AS IF THEY WERE REPRODUCED HEREON.
- PERMITS & CERTIFICATES: ALL WORK SHALL COMPLY WITH STATE AND LOCAL REGULATIONS AND ORDINANCES, ANY OTHER APPLICABLE CODES AND SHOPPING CENTER CRITERIA.
 - THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND ARRANGE FOR ALL INSPECTIONS BY LOCAL JURISDICTIONS.
 - A COMPLETE UP TO DATE SET OF THE DRAWINGS, INCLUDING APPROVED SHOP DRAWINGS SHALL BE KEPT AT THE SITE FOR THE DURATION OF THE PROJECT. COPIES OR ORIGINALS, IF REQUIRED, OF ALL PERMITS AND APPROVALS, SHALL ALSO BE KEPT AT THE SITE.
 - UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL SECURE AND DELIVER TO THE LANDLORD AND TENANT (COPY TO ARCHITECT) A PROPERLY ISSUED OCCUPANCY CERTIFICATE AND COPIES OF ANY OTHER REQUIRED APPROVALS BY ANY AND ALL AGENCIES HAVING JURISDICTION OVER THE WORK (INCLUDING THE LANDLORD).
- INSURANCE: ALL CONTRACTORS (GENERAL AND SUBCONTRACTORS) SHALL COMPLY WITH THE LANDLORD'S AND TENANTS REQUIREMENT FOR INSURANCE, BONDS AND WAIVER OF LIEN.
 - PRIOR TO COMMENCEMENT OF THE WORK, ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN INSURANCE POLICIES AS OUTLINED BELOW. INSURANCE POLICIES ARE TO NAME THE TENANT, TENANT'S PROGRAM MANAGER (RGLA SOLUTIONS, INC.), TENANT'S ARCHITECT (ROBERT G. LYON & ASSOCIATES, INC.), LANDLORD AND THE LANDLORD'S GENERAL CONTRACTOR (IF APPLICABLE) AS ADDITIONALLY INSURED. CERTIFICATES OF INSURANCE SHALL BE SUBMITTED TO THOSE NAMED.
 - WORKMAN'S COMPENSATION AND OCCUPATIONAL DISEASE INSURANCE:
 - STATE - STATUTORY.
 - APPLICABLE FEDERAL (E.G.: LONGSHOREMEN, HARBOR WORK, WORK OUTSIDE THE UNITED STATES) - STATUTORY.
 - EMPLOYER'S LIABILITY:

\$500,000.00	PER ACCIDENT
\$500,000.00	DISEASE
 - BENEFITS REQUIRED BY UNION LABOR CONTRACTS AS APPLICABLE.
 - COMPREHENSIVE GENERAL LIABILITY (INCLUDING PREMISES - OPERATIONS; INDEPENDENT CONTRACTORS' PROTECTIVE; PRODUCTS AND COMPLETED OPERATIONS; BROAD FORM PROPERTY DAMAGE; AUTOMOBILE COVERAGE, AND CONTRACTUAL LIABILITY.)
 - BODILY INJURY:

\$4,000,000.00	EACH OCCURRENCE
\$4,000,000.00	AGGREGATE
 - PROPERTY DAMAGE (INCLUDING WATER DAMAGE AND SPRINKLER LEAKAGE, LEGAL LIABILITY):

\$4,000,000.00	EACH OCCURRENCE
\$4,000,000.00	AGGREGATE
 - PRODUCTS AND COMPLETED OPERATIONS SHALL BE MAINTAINED FOR A MINIMUM OF ONE (1) YEAR AFTER FINAL PAYMENT AND CONTRACTOR SHALL CONTINUE TO PROVIDE EVIDENCE OF SUCH COVERAGE TO OWNER ON AN ANNUAL BASIS DURING THE AFORESAID TERM.
 - PROPERTY DAMAGE LIABILITY INSURANCE SHALL INCLUDE COVERAGE FOR EXPLOSION AND COLLAPSE.
 - CONTRACTUAL LIABILITY (HOLD HARMLESS COVERAGE):

BODILY INJURY:	
\$2,000,000.00	EACH OCCURRENCE
PROPERTY DAMAGE:	
\$2,000,000.00	EACH OCCURRENCE
\$2,000,000.00	AGGREGATE
 - PERSONAL INJURY (WITH EMPLOYMENT EXCLUSION DELETED):
 - \$2,000,000.00 EACH PERSON
 - COMPREHENSIVE AUTOMOBILE LIABILITY (OWNED, NON-OWNED, HIRED):
 - BODILY INJURY:

\$2,000,000.00	EACH PERSON
\$2,000,000.00	EACH ACCIDENT
 - PROPERTY DAMAGE:

\$2,000,000.00	EACH OCCURRENCE
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 - OTHER INSURANCE AND BONDS AS MAY BE REQUIRED BY THE LANDLORD (VERIFY REQUIREMENTS WITH THE LANDLORD).
- CONTRACTOR (S.C.): THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND TRANSPORTATION NECESSARY, WHETHER STATED OR IMPLIED, TO COMPLETE THE WORK AS DESCRIBED ON THESE DRAWINGS AND SPECIFICATIONS.
 - REFER TO THE DIVISION OF WORK FOR A BREAKDOWN OF THE VARIOUS RESPONSIBILITIES OF ALL INVOLVED PARTIES. ALL CONTRACTORS, VENDORS AND TRADES ARE RESPONSIBLE FOR THE VARIOUS PROVISIONS OF THE SPECIFICATION AS IT APPLIES TO THEM.
 - INSTALL ALL SYSTEMS, COMPONENTS, ASSEMBLIES, FIXTURES, HARDWARE AND FINISHES PER THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS.
 - IMMEDIATELY REPAIR ALL DAMAGE TO ANY SYSTEMS OR COMPONENTS BEING MAINTAINED AT NO COST TO THE LANDLORD.
 - PROTECT ALL PEOPLE.
 - ALL WORK SHALL BE COORDINATED WITH AND IS SUBJECT TO APPROVAL BY, AND IS SUBJECT TO THE RULES OF THE LANDLORD. CONTRACTOR TO OBTAIN RULES AND REGULATIONS FROM LANDLORD.
 - THE WORK UNDER THIS CONTRACT INCLUDES BOTH A FULL TIME SITE SUPERINTENDENT AND PROJECT MANAGER FOR THE DURATION OF CONSTRUCTION.
- WORK BY TENANT: REFER TO THE DIVISION OF WORK FOR ANY TENANT FURNISHED AND SUPPLIED ITEMS.
- WORK BY LANDLORD: REFER TO THE DIVISION OF WORK FOR ANY LANDLORD FURNISHED AND SUPPLIED ITEMS.
- WORK BY GENERAL CONTRACTOR IS SUBJECT TO THE RULES OF THE LANDLORD. SUBMIT EVIDENCE OF SAME AS MAY BE REQUIRED, OBTAIN A LIST OF RULES AND REGULATIONS FROM THE LANDLORD.
 - MINIMUM INTERFERENCE- ALL WORK SHALL BE PERFORMED SO AS TO CAUSE A MINIMUM OF INTERFERENCE WITH ANY OTHER TENANTS AND THE OPERATION OF THE LANDLORD'S ENTIRE PREMISES. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY STEPS TO PROTECT THE FACILITIES ON THE PREMISES AND THE FACILITIES OF OTHERS AFFECTED BY PERFORMANCE OF THE WORK AND POLICE SAME PROPERLY.
 - ALL MATERIALS AND PRODUCTS SPECIFIED SHALL BE NEW AND ARE TO BE INSTALLED IN ACCORD WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. GENERAL CONTRACTOR IS TO CONSTRUCT PROJECT IN ACCORD WITH THE DOCUMENTS, ANY DEVIATION FROM THE INTENT OF THE DOCUMENTS WITHOUT ARCHITECT APPROVAL IS THE CONTRACTOR'S OWN RISK.
- TENANT SUPPLIED/TENANTS GENERAL CONTRACTOR INSTALLED MATERIALS.
 - THE GENERAL CONTRACTOR SHALL INCLUDE IN BASE BID THE COST TO UNLOAD AND STORE OWNER FURNISHED ITEMS FOR INSTALLATION BY THE GENERAL CONTRACTOR.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FLING FREIGHT CLAIMS DIRECT WITH CARRIER, AND FOLLOWING THROUGH AS NECESSARY WITH ALL SUBSEQUENT PROCEDURES, INCLUDING INSPECTIONS AND REMOVAL OF DAMAGED MATERIAL. THIS APPLIES TO VISIBLE AND CONCEALED DAMAGES OF ALL OWNER SUPPLIED MATERIALS. FAILURE TO DO SO WILL RESULT IN BACK-CHARGE EXPENSES TO THE GENERAL CONTRACTOR.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL OWNER SUPPLIED MATERIALS THROUGHOUT THE COURSE OF THE PROJECT, AND IS TO MAKE REPAIRS AS REQUIRED.
- APPLICATION FOR PAYMENT: SUBMIT (3) THREE COPIES OF EACH APPLICATION ON AIA G702 FORMS. PAYMENT MAY BE APPLIED FOR MONTHLY AND WILL BE BASED ON PERCENTAGE OF WORK COMPLETED LESS RETAINAGE.
 - BEGINNING WITH PAY REQUEST #2, GENERAL CONTRACTOR SHALL SUBMIT A PARTIAL WAIVER OF LIEN EQUAL TO THE AMOUNT OF THE PREVIOUS PAY REQUEST FROM EACH SUBCONTRACTOR.
 - UPON COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT, THE GENERAL CONTRACTOR SHALL SUBMIT FINAL UNCONDITIONAL (NOTARIZED) WAIVERS OF LIEN FROM ALL SUBCONTRACTORS AND A FINAL NOTARIZED UNCONDITIONAL WAIVER OF LIEN FROM HIMSELF FOR THE FULL AMOUNT OF THE CONTRACT (INCLUDING ALL ADDITIONS AND CREDITS).
- COORDINATION: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL SUBCONTRACTORS AND TRADES.
 - PROVIDE AND MAINTAIN AN UP-TO-DATE SCHEDULE OF WORK.
 - SCHEDULE AND ADMINISTER MEETINGS AS AGREED TO BY THE OWNER AND ARCHITECT AND COMPOSE MINUTES TO THOSE MEETINGS.
 - PROVIDE A FULL TIME QUALIFIED SUPERVISOR ON SITE

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL OTHER CONTRACTORS AND VENDORS WORKING IN THE SPACE.
- SUBMITTALS: SUBMITTALS SHALL BE PROVIDED FOR MATERIALS AND ASSEMBLIES LISTED IN EACH SECTION OF THIS SPECIFICATION:
 - SHOP DRAWINGS AND SAMPLES: WHERE CALLED FOR IN DOCUMENTS, SUBMIT TO ARCHITECT FOR APPROVAL AS FOLLOWS:
 - REPRODUCIBLE DRAWINGS: ONE SET/PA TRANSPARENCY.
 - NON-REPRODUCIBLE DATA: TWO COPIES.
 - SAMPLES: (2) EACH.
 - CLEARLY MARK ALL SUBMISSIONS WITH DATA, PROJECT, CONTACT AND SUB-CONTRACTOR AND ALLOW SPACE FOR APPROVAL STAMP.
 - PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL INFORMATION AND INSTALLATION INSTRUCTIONS FOR SPECIFIED MATERIALS, EXCEPT BULK MATERIALS, TO THE TENANT (COPY TO THE ARCHITECT).
 - PRODUCT WARRANTY: SUBMIT MANUFACTURER'S PRODUCT AND MATERIAL INFORMATION TO TENANT (COPY TO THE ARCHITECT).
- INSPECTION AND TESTING: THE GENERAL CONTRACTOR SHALL EMPLOY AND PAY FOR AN INDEPENDENT FIRM (APPROVED BY THE ARCHITECT) TO PERFORM INSPECTION AND TESTING REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
 - SUBMIT TESTING AND INSPECTION RESULTS TO THE ARCHITECT, AND TENANT FOR THEIR FILES.
- TEMPORARY SERVICES: PROVIDE TEMPORARY SERVICES NECESSARY TO COMPLETE THE CONSTRUCTION INCLUDING (BUT NOT LIMITED TO): ELECTRICITY, LIGHTING, HVAC, TELEPHONE, FACSIMILE MACHINE, WATER SERVICE, SANITARY FACILITIES, FIRE PROTECTION EQUIPMENT, FENCES/BARRICADES AND SECURITY.
 - GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BARRICADES, TEMPORARY CONSTRUCTION, DUSTSHIELDS, AND SCAFFOLDING REQUIRED TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BARRICADE MAINTENANCE, REMOVAL AND REPAIR, CLEANUP OR ANY RECONSTRUCTION REQUIRED AS A RESULT OF THE BARRICADE.
 - GENERAL CONTRACTOR IS TO BE FAMILIAR WITH ALL LANDLORD CRITERIA, SPECIAL WORKING CONDITIONS PERTAINING TO BARRICADES, NOISE, DUST, TRASH REMOVAL, ETC. AND TO COORDINATE WITH LANDLORDS.
 - GENERAL CONTRACTOR MUST HAVE A JOB PHONE ON PREMISES DURING ENTIRE CONSTRUCTION PERIOD AND PROVIDE NUMBER AND NAME OF CONTACT TO ARCHITECT AND TENANT IMMEDIATELY.
- SITE ACCESS: COORDINATE SITE ACCESS, WORK HOURS, WORKER PARKING, LOADING AND UNLOADING AND STORAGE OF MATERIALS WITH THE LANDLORD.
- JOB SAFETY REQUIREMENTS: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFETY DURING CONSTRUCTION. PROVIDE AND POST SAFETY RULES AT THE JOBSITE.
 - GENERAL CONTRACTOR SHALL PAY FOR ALL SCAVENGER SERVICES, BE RESPONSIBLE FOR REMOVAL OF DEBRIS FOR ALL TRADES (INCLUDING OTHER CONTRACTORS AND VENDORS) AND FOR KEEPING THE JOB SITE CLEAN AT ALL TIMES.
 - TENANT GENERAL CONTRACTOR TO PROVIDE FINAL DEEP CLEANING OF ALL WOOD, GLASS, AND METAL FIXTURES, STOREFRONT GLAZING INSIDE AND OUT, VACUUMING OF CARPET, MOPPING AND WAXING OF VCT FLOORING, MOPPING AND BUFFING OF SOLID VINYL FLOORING PRIOR TO TURN OVER TO OPERATING COMPANY.
- RECORD DRAWINGS/0&M MANUALS: MAINTAIN, ON SITE, ONE SET OF CONTRACT DOCUMENTS TO BE UTILIZED FOR RECORD DRAWINGS. RECORD ALL REVISIONS OF WORK.
 - UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL SECURE AND DELIVER TO THE TENANT (COPY TO THE ARCHITECT) ALL GUARANTEES AND/OR WARRANTIES ON ALL EQUIPMENT SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR, AND HIS SUBCONTRACTORS.
 - UPON COMPLETION OF THE WORK AND BEFORE FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL SUBMIT (ON REPRODUCIBLE MYLAR) ONE SET OF AS-BUILT DRAWINGS INDICATING ALL CHANGES AND MODIFICATIONS MADE TO THE PROJECT DURING CONSTRUCTION.
 - PROVIDE THE LANDLORD WITH COPIES OF RECORD DRAWINGS AND O & M MANUALS AS REQUIRED.
- PUNCH LIST/CLOSE-OUT: UPON NOTIFICATION, THE ARCHITECT & TENANT SHALL PREPARE A PUNCH LIST OF THE PROJECT AND THE GENERAL CONTRACTOR SHALL MAKE GOOD ALL PUNCH LIST ITEMS TO THE SATISFACTION OF THE ARCHITECT /TENANT PRIOR TO FINAL PAYMENT.

- THE GENERAL CONTRACTOR SHALL:
- FINAL CLEAN SITE.
 - RESOLVE ALL PUNCH LIST ITEMS.
 - TEST AND BALANCE HVAC SYSTEM.
 - SUBMIT TWO COPIES OF ALL O&M MANUALS.
 - SUBMIT COPIES OF MANUFACTURER'S WARRANTIES.
 - SUBMIT RECORD DRAWINGS.
 - LEAVE ON SITE ATTIC STOCK FOR CEILING TILE AND FLOOR TILE.
- NOTE: THE GENERAL CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ANY EXPENSES INCURRED BY THE ARCHITECT FOR ADDITIONAL VISITS AS A RESULT OF PUNCH LIST ITEMS NOT CORRECTED BEFORE THE FOLLOW-UP VISIT.
- GUARANTEE: THE GENERAL CONTRACTOR SHALL GUARANTEE THE WORK FOR ONE (1) YEAR AFTER THE SUBSTANTIAL COMPLETION OF ALL WORK.
 - GUARANTEE/WARRANTY CERTIFICATES BY THE MANUFACTURER SHALL BE SUBMITTED AS APPROPRIATE.
 - REFER TO OTHER SECTION OF THE SPECIFICATION FOR ADDITIONAL GUARANTEE/WARRANTY REQUIREMENTS.

DIVISION 02: SITE WORK:

- REFER TO THE ARCHITECTURAL DRAWINGS FOR ANY NOTES RELATED TO DEMOLITION WORK.
- THE GENERAL CONTRACTOR IS TO DEMOLISH AND REMOVE FROM THE PREMISES IN A MANNER ACCEPTABLE TO ALL JURISDICTIONAL AGENCIES, THE LANDLORD, AND THE APPROVAL OF THE ARCHITECT. ALL WORK SO INDICATED OR REQUIRED BY THE WORK OF THE CONTRACT DOCUMENTS OR AS MAY BE DIRECTED IN THE FIELD BY THE ARCHITECT. THE WORK WHICH IS TO BE REMOVED SHALL INCLUDE ANY EXISTING CONSTRUCTION, FURNISHINGS, EQUIPMENT OR FINISHES NOT TO REMAIN IN THE COMPLETED
- LAYOUT WORK:
 - GENERAL CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY SERVICE LINES AND PROTECT THEM THROUGHOUT THE CONSTRUCTION PERIOD.
 - GENERAL CONTRACTOR SHALL LAY OUT WORK AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS, MEASUREMENTS OF THE BUILDING UTILITIES, AND OTHER WORK EXECUTED UNDER THE CONTRACT.
 - LANDLORD/TENANT GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AS THEY MAY APPLY TO EXISTING CONDITIONS WITH PARTICULAR EMPHASIS ON DIMENSIONS MARKED "VERIFY" OR "VERIFY IN FIELD (V.I.F.)" NOTIFY ARCHITECT AND TENANT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS IN WRITTEN FORM, WORK.
 - ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED IN THE CONTRACT DOCUMENTS BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND TENANT BEFORE PROCEEDING WITH RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DIVISION 03: CONCRETE WORK:

- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR A SMOOTH TRANSITION BETWEEN STORE FLOORS AND ADJACENT FLOORS. STORE FLOOR MAY REQUIRE LATEX FEATHERING OR, WHERE POSSIBLE, GRINDING DOWN OF STORE SUBFLOOR TO ALLOW FOR A SMOOTH TRANSITION, IF FLOOR GRINDING IS NOT PERMITTED BY LANDLORD CONTRACT ARCHITECT.
- (WHEN APPLICABLE) NEW OR ADDITIONAL CONCRETE WORK STAIRS, STOOPS, RAMPS, ECT. REFER TO ALL DRAWINGS FOR ADDITIONAL CONCRETE SPECIFICATIONS.

DIVISION 04: MASONRY: (WHEN APPLICABLE)

- REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MASONRY SPECIFICATIONS.
- PRODUCTS:
 - LINTELS AND BOND BEAMS: (IF APPLICABLE)
 - INSTALL LINTELS WHERE NOTED ON THE DRAWINGS.
 - INSTALL BOND BEAMS WHERE NOTED ON THE DRAWINGS; REINFORCE AS DETAILED AND GROUT SOLID.
 - REMOVE EXCESS MORTAR AND CLEAN SURFACES UPON COMPLETION OF MASONRY INSTALLATION.

DIVISION 05: METALS:

- REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS RELATED TO STRUCTURAL METAL WORK.
- (WHEN APPLICABLE) REFER TO ALL DRAWINGS FOR ADDITIONAL ARCHITECTURAL METAL WORK, RAILINGS, REFER HANDRAILS, ETC.

DIVISION 06: WOOD AND PLASTIC:

- SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, ROUGH CARPENTRY (WOOD BLOCKING) AND FINISH CARPENTRY (CABINENTRY, WOOD TRIM, HARDWARE AND ACCESSORIES).
- ROUGH CARPENTRY: WOOD BLOCKING
 - PROVIDE SOLID BLOCKING IN STUD WALLS WHERE ALL FIXTURES OR DEVICES ARE TO BE MOUNTED. ALL WOOD BLOCKING SHALL BE

- FIRE RESISTANT TREATED.
 - ALL DIMENSIONAL LUMBER TO BE FIRE RETARDANT WITH U.L. RATING "NON-COMBUSTIBLE."
- FINISH CARPENTRY: CABINENTRY, AND WOOD TRIM:
 - ALL MILLWORK SHALL COMPLY WITH THE APPROPRIATE SPECIFICATIONS OF THE ARCHITECTURAL QUALITY STANDARDS (ILLUSTRATED) OF THE AMERICAN WOODWORK INSTITUTE (AWI) FOR "CUSTOM" GRADE MILLWORK.
 - PAIN'T GRADE FINISH LUMBER SHALL BE "POPULAR" OR "BIRCH" SANDED SMOOTH AND FREE OF BLEMISHES OR ABRASIONS. ALL WOOD SHALL HAVE TIGHT AND UNIFORM JOINTS.
 - MILLWORK CONTRACTOR SHALL VERIFY ALL DIMENSIONS AFFECTING HIS WORK IN THE FIELD PRIOR TO FABRICATION.
 - FIXTURE MILLWORK AS NOTED ON DRAWINGS IS SUPPLIED BY TENANT AND INSTALLED BY TENANT GENERAL CONTRACTOR.
 - SOME FIELD ASSEMBLY OF MILLWORK IS REQUIRED. FOLLOW SHOP DRAWING ACCOMPANYING MILLWORK. ALL FIELD ASSEMBLED MILLWORK TO BE SCRIBED AND JOINED ACCURATELY.
 - INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.
 - MAKE ALL JOINTS INCONSPICUOUS MAINTAINING A UNIFORM FLUSH CONNECTION USING COMBINATION OF SCREWS, DOWELS AND GLUE. BLIND FASTENERS WHERE POSSIBLE. WHERE BLIND FASTENINGS IS IMPOSSIBLE, DRILL HOLES UNIFORMLY, SET AND PUTTY HEADS AND FINISH AS APPLICABLE TO
- PLASTIC LAMINATES:
 - ALL LAMINATE SURFACES, EDGES AND ADJACENT MATERIALS TO BE FREE OF ALL ADHESIVES, MARKINGS, CHIPS AND SURFACE BLEMISHES. REMOVE WRAPPINGS.
 - PLASTIC LAMINATES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL EDGES TO BE FLUSH, TRUE AND STRAIGHT, WITHOUT GAPS. ADJACENT LAMINATED PANELS TO BE CONCEALED SPLINE JOINTS.
 - LAMINATE TO BE INSTALLED OVER MEDIUM DENSITY PARTICLE BOARD. SPACKLE AND SAND SMOOTH TO AVOID TELEGRAPHING OF FASTENER LOCATIONS, BACKER EDGES, ETC.
 - ALL LAMINATE WORK TO BE FASTENED WITH CONCEALED MECHANICAL FASTENERS ATTACHED TO SUBSTRATE FRAMING AND WITH ADHESIVES. SET WITH BLOCKS AND CLAMPS UNTIL ADHESIVES HAVE DEVELOPED ADEQUATE BONDING STRENGTH.

DIVISION 07: THERMAL & MOISTURE PROTECTION:

- SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, VAPOR BARRIER, BUILDING INSULATION, MEMBRANE ROOFING SYSTEM, 'EIFS' SYSTEM, FLASHING, COPING/FASCIA, AND SEALANTS.
- BUILDING INSULATION (WHEN APPLICABLE):
 - CEILING INSULATION - SOUND BATTS: 3 1/2" THICK SOUND ATTENUATION BATT INSULATION CONFORMING TO ASTM C865 AS MANUFACTURED BY OWENS CORNING FIBERGLASS "FIRECODE 60", R19.
 - WALL INSULATION - THERMAL BATT - 1 1/2" THICK FOIL FACED BATT INSULATION - TYPE 703, R 6.5
 - WALL INSULATION - THERMAL BATT - 3 1/2" THICK FOIL FACED BATT INSULATION - TYPE 705, R 15.2 (WHEN APPLICABLE)

DIVISION 08: DOORS, WINDOWS & GLASS:

- SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, WOOD AND METAL DOORS AND FRAMES, METAL WINDOWS, GLASS AND GLAZING AND HARDWARE.
 - WOOD AND STEEL DOORS (WHEN APPLICABLE):
 - STEEL DOORS (EXTERIOR); GRADE II, EXTRA HEAVY DUTY, SEAMLESS COMPOSITE CONSTRUCTION, SHOP PRIMED, WITH INSULATED CORES AND FIRE RATED AS NOTED ON THE DRAWINGS. ACCEPTABLE MANUFACTURERS INCLUDE CECO, KEWANEER OR STEELCRAFT.
 - WOOD DOORS (INTERIOR); 1 3/4" THICK SOLID CORE AND HOLLOW CORE CONSTRUCTION WITH WOOD VENEER FACES. FABRICATE DOORS IN ACCORDANCE WITH AIA STANDARDS.
 - VEENER TO BE BIRCH, ROTARY SLICED WITH RANDOM MATCH GRAIN FOR PAINT FINISH.
 - PROVIDE CUTOFFS FOR GLAZING AS NOTED ON THE DRAWINGS.
 - METAL FRAMES (WHEN APPLICABLE):
 - METAL FRAMES (EXTERIOR); 16 GAUGE WITH INSULATED CORE, SHOP PRIMED, WELDED FRAMES AND 4" MASONRY HEAD.
 - METAL FRAMES (INTERIOR); 16 GAUGE, SHOP PRIMED, KNOCK-DOWN TYPE FOR DRYWALL SLIP-ON ASSEMBLY, UNLESS OTHERWISE NOTED.
 - ALUMINUM DOORS AND WINDOWS (WHEN APPLICABLE):
 - ALUMINUM SYSTEM SHALL MATCH EXISTING STOREFRONT SYSTEM. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR FABRICATION AND INSTALLATION.
 - ALUMINUM ENTRANCE DOORS SHALL MATCH EXISTING STOREFRONT SWINGING DOORS WITH INTERMEDIATE MULLIONS AS SHOWN ON THE DRAWINGS.
 - COLOR TO MATCH EXISTING PROPERTY STOREFRONT.
- HARDWARE: FURNISH AND INSTALL HARDWARE AS NOTED ON THE HARDWARE/DOOR SCHEDULE.
- GLASS (WHEN APPLICABLE):
 - GLASS (EXTERIOR) STOREFRONT TO MATCH EXISTING ADJACENT GLAZING. GLAZING TO BE TEMPERED WHERE REQUIRED BY CODE.
 - ALL INTERIOR STOREFRONT GLASS TO BE PURCHASED BY G.C. GLASS SHALL BE 1/2" TEMPERED GLASS AS MANUFACTURED BY PPG INDUSTRIES
 - FLOAT GLASS (INTERIOR, WHEN APPLICABLE); CLEAR, 1/4" THICKNESS.
 - WIRE GLASS VISION PANEL (WHEN APPLICABLE) CLEAR FULLY TEMPERED, 1/4" THICKNESS
 - PROVIDE NEOPRENE GASKETS AND GLAZING TAPE AT ALL STOPS (INTERIOR GLAZING).
 - MIRRORS TO HAVE ELECTROPLATED COPPER BACKS, EXPOSED MIRROR EDGES TO BE POLISHED AND CONCEALED EDGES TO BE PAINTED FLAT BLACK. USE NON-STAINING MIRROR MASTIC FOR CEMENTING MIRRORS TO WALL. MIRRORS CEMENTED TO WALL SHALL HAVE A CONTINUOUS BEAD OF SILICONE CEMENT AROUND ENTIRE EDGE OF MIRROR AND WALL.

DIVISION 09: FINISHES

- SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO: GYPSUM BOARD SYSTEMS, SUSPENDED ACOUSTICAL CEILINGS, RESILIENT FLOORING, CARPET, PAINTING AND WALL COVERING AND FLOOR COVERING.
 - ALL EXIT WAY WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD CLASSIFICATION OF NOT MORE THAN CLASS II AND FLAME SPREAD INDEX OF 75 OR LESS. ALL OTHER WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD CLASSIFICATION OF NOT MORE THAN CLASS III AND FLAME SPREAD OF 200 OR LESS.
- GYPSUM BOARD SYSTEMS: INCLUDES METAL STUDS AND GYPSUM BOARD WALLS AND ALL REQUIRED METAL BEADS, CORNER TRIM, FASTENING DEVICES, ETC.
 - ALL GYPSUM BOARD WALLS AND CEILINGS SHALL BE BUILT IN ACCORDANCE WITH THE GUIDELINES OF THE MOST RECENT VERSION OF THE "GYPSUM CONSTRUCTION HANDBOOK" OF THE UNITED STATES GYPSUM COMPANY.
 - GYPSUM BOARD SHALL BE 5/8" THICK, TYPE AS INDICATED ON THE DRAWINGS. ALL DRYWALL TO BE TAPED, RECEIVE THREE COATS SPACKLE, SANDED. ALL CORNERS AND EDGES TO HAVE METAL CORNER BEAD BEDDED AND SANDED FOR FINISH.
 - METAL STUDS SHALL BE 20 GAUGE GALVANIZED STEEL, "C" SHAPED. FASTENERS SHALL BE TYPE "W" DRYWALL SCREWS. STRUCTURAL STUDS - CEE (WHEN REQUIRED) SHALL BE BY DALE/INCOR.
 - PROVIDE SOUND INSULATION IN PARTITIONS WHERE NOTED ON DRAWINGS.
 - ACCESS DOORS, WHERE INDICATED OR AS REQUIRED, SHALL BE PROVIDED TO ALL CONTROL DEVICES, CLEAN OUTS, DAMPERS, AND THE MIXED AIR DISCHARGE AND INTAKE PLENUMS AT THE HVAC UNIT (VERIFY WITH LANDLORD) BY G.C.
- SUSPENDED CEILING SYSTEM, (WHEN APPLICABLE)
 - 2X2X2 ACOUSTICAL CEILING AND GRID SYSTEM.
 - CEILING TO BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S PUBLISHED SPECIFICATIONS AND CURRENT BULLETIN OF ACOUSTICAL MATERIALS ASSOCIATION - JOB CONDITIONS.
 - SUSPENSION SYSTEM TO BE RIGID CEILING GRID SYSTEM WITH CROSS FURRING CHANNELS - DIRECT SUSPENSION SYSTEM.
 - ALL FIXTURES INSTALLED IN LAY-IN CEILING SHALL BE PLACED IN CENTER OF CEILING TILE UNLESS DIMENSIONED OTHERWISE.
- RESILIENT FLOORING AND BASE: INCLUDES TINY TILE, COMPOSITION TILE, VINYL BASE, AND (WHEN APPLICABLE) SHEET VINYL.
 - PRODUCTS - AS INDICATED IN THE FINISH SCHEDULE.
 - INSTALLATION:
 - VINYL COMPOSITION, & VINYL TILE FLOORS TO BE PROPERLY PREPARED WITHOUT HOLES, CRACKS AND BUMPS TO INSURE A FIRST CLASS FLOOR INSTALLATION.
 - VINYL COMPOSITION FLOOR TILE AND VINYL TILE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - VINYL BASE ROLLED SMOOTH, CORNERS AND EDGES TO BE TRUE AND TIGHT, SEAM SEALER TO BE APPLIED. SIZE OF SMALLEST PIECE TO BE 9 INCH LENGTH.
 - ALL VINYL BASE SHALL BE FURNISHED WITH PREFORMED INSIDE AND OUTSIDE CORNERS.
 - CONCRETE SUBSTRATE - SHALL BE CLEAN, SMOOTH AND FREE OF DEFECTS.
 - AFTER INSTALLATION, CLEAN, SEAL AND WAX FLOOR PER THE MANUFACTURER'S INSTRUCTION.
 - DELIVER TO OWNER REPLACEMENT TILES IN THE AMOUNT OF 10% OF MATERIALS (ATTIC STOCK).

CERAMIC TILE (WHEN APPLICABLE):

- PREPARATION OF SURFACES:
 - SUBSTRATE SHALL BE FURNISHED CLEAN, SMOOTH AND LEVELLED TO A TOLERANCE OF NO MORE THAN 1/4" IN TEN FEET. JOINTS, CONSTRUCTION SEAMS, AND OTHER IRREGULARITIES ARE TO BE FILLED, LEVEL, AND SMOOTH WITH QUALITY PRODUCTS MEETING INDUSTRY STANDARDS SPECIFIED BY THE NATIONAL TILE CONTRACTORS ASSOCIATES, INC. OR THE TILE COUNCIL OF AMERICA. ALL CONTAMINANTS SUCH AS GREASE, WAX, OIL, SEALERS CURING MEMBRANES, AND OLD ADHESIVE MUST BE COMPLETELY REMOVED. EXPANSION JOINTS MUST BE PROVIDED AS PER SPECIFICATIONS AND MATERIALS DETAILED BY TILE COUNCIL OF

IT IS THE TENANT'S GENERAL CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND VERIFY EXACT LOCATION OF LEASE LINE WITH LANDLORD REPRESENTATIVE. CONTRACTOR MUST NOTIFY ARCHITECT / OWNER IMMEDIATELY OF ANY DISCREPANCIES.

SPECIFICATIONS

GENERAL NOTES

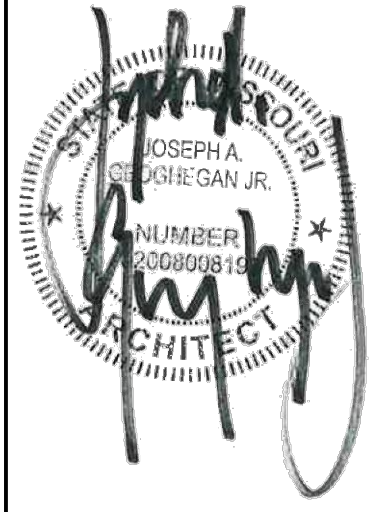
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REVISIONS:	DATE:
ISSUE FOR PERMIT, LANDLORD, PRICING	06/18/25

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SUMMIT WOODS
CROSSING

1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

DIVISION OF WORK &
SYMBOLS LEGEND

DRAWN BY
SLS
CHECKED BY
SL
JOB NUMBER
25303
SHEET NAME
G-0.2

DIVISION OF WORK

DESCRIPTION	EXIST.		DOES NOT		GENERAL CONTRACTOR AND SUB-CONTRACTOR		OWNER		LANDLORD		REMARKS
	TO REMAIN	APPLY	FURNISH	INSTALL	FURNISH	INSTALL	FURNISH	INSTALL			
DIVISION 01: GENERAL REQUIREMENTS											
AS APPLICABLE PERMITS			●	●	●	●					
DIVISION 02: SITE WORK											
BARRICADE / FENCE GRAPHICS (BARRICADE)		●									
DEMOLITION			●	●							
DIVISION 03: CONCRETE											
CHANNEL / CORE SLAB FOR IN FLOOR PLUMBING FIXTURE			●	●							
CHANNEL / CORE SLAB FOR NEW IN FLOOR ELECTRICAL/DATA CONDUIT			●	●							
CHANNEL, LEVEL AND SLOPE CONCRETE SLAB FOR FINISHES AND TRANSITIONS			●	●							
GRINDING AND POLISHING CONCRETE			●	●							
DIVISION 04: MASONRY											
STOREFRONT STONE REPAIR	●		●	●							
MASONRY FINISHES (SEE FINISH LEGEND ON A0.1)	●	●									
DIVISION 05: METALS											
STRUCTURAL FRAMING			●	●							
STRUCTURAL PANEL SYSTEM	●										
STRUCTURAL COLUMNS AND ANGLES	●										
DIVISION 06: WOOD & PLASTICS											
ROUGH CARPENTRY			●	●							
BLOCKING			●	●							
FINISH CARPENTRY			●	●							
DIVISION 07: THERMAL & MOISTURE CONTROL											
CAULK AND SEALANTS			●	●							
INSULATION (SOUND)			●	●							
DIVISION 08: DOORS, WINDOWS & GLASS											
STOREFRONT GLAZING / GLAZING SYSTEM	●										
STOREFRONT SYSTEM	●										
STOREFRONT DOOR AND HARDWARE	●		●	●							
INTERIOR DOORS, FRAMES & HARDWARE	●		●	●							
											SEE DOOR SCHEDULE
DIVISION 09: FINISHES											
PATCH AND REPAIR DEMISING WALL			●	●							VERIFY CONDITION
INTERIOR METAL STUD FRAMING AND DRYWALL			●	●							SEE A1.1
PATCH AND REPAIR EXISTING DRYWALL AS REQUIRED			●	●							PATCH AS REQUIRED
INTERIOR DRYWALL CEILING			●	●							SEE A2.1
FINISHES											SEE FINISH SCHEDULE A0.1
FLOORING TRANSITIONS			●	●							
DIVISION 10: MISCELLANEOUS SPECIALTIES											
COMING SOON GRAPHICS				●	●						SEE F2.1
PERMANENT VINYL GRAPHICS					●	●					SEE F2.1
INTERIOR GRAPHICS / SIGNAGE (NON-VINYL)				●	●						SEE F2.1
EXTERIOR AWNINGS		●									
DIVISION 11 AND 12: FURNITURE, FIXTURE AND EQUIPMENT											
UNLOADING FIXTURES				●							
STORE FIXTURES				●	●	●					SEE FIXTURE PLAN
GRAPHIC RAILS, BRACKETS & HARDWARE			●	●							
PROPS AND DISPLAY				●	●		●				
MANAGEMENT OF OWNER SUPPLIED ITEMS				●	●						
DIVISION 13 AND 14: SPECIAL CONSTRUCTION AND CONVEYING SYSTEMS											
NOT APPLICABLE		●									
DIVISION 16: ELECTRICAL											
LOW VOLTAGE CONDUITS	●		●	●							SEE A6.1 FOR NEW WORK
LOW VOLTAGE WIRING	●		●	●							SEE A6.1 FOR NEW WORK
LOW VOLTAGE WIRING - TERMINATIONS AT THE PATCH PANEL / SWITCH	●		●	●			●				SEE A6.1 FOR NEW WORK
LIGHTING			●	●							USE OWNER REQ'D VENDOR

ACCESSIBILITY NOTES:

TENANT MUST COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL LOCAL AND STATE CODES.

DOOR HARDWARE: HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE MOUNTED 2'-10" A.F.F. AND BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.

DOOR EFFORT: MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS.

SMOOTH DOOR BOTTOM: THE BOTTOM OF ALL DOORS SHALL (EXCEPT SLIDING AUTOMATIC) HAVE A SMOOTH UNINTERRUPTED SURFACE.

REQUIRED DOOR OPENING WIDTH & SIZE: ALL REQUIRED EXIT DOORWAYS SHALL HAVE A MIN. 32" CLEAR OPENING WITH THE DOOR AT 90° TO THE CLOSED POSITION. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3'-0" IN WIDTH & NOT LESS THAN 6'-8" IN HEIGHT.

THRESHOLD HEIGHT: MAXIMUM HEIGHT OF THRESHOLD SHALL BE 1/2" WITH VERTICAL CHANGE AT EDGE OF 1/2 WITH A MAXIMUM LEVEL OF 45 DEGREES CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THEN 1:2.

FAUCET LEVERS: ALL FAUCET CONTROLS FOR SINKS (EXISTING AND/OR NEW) ARE TO BE OPERABLE WITH LEVER TYPE CONTROLS.

PLUMBING PROTECTION: ALL EXPOSED PLUMBING IS TO BE WRAPPED WITH INSULATION.

DOOR OPERABILITY: LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITH OUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

CHANGES IN LEVEL: ABRUPT CHANGES IN LEVEL ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED 1/2" IN HEIGHT. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE OF NO GREATER THAN 1:12, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.

DOOR LANDING AREAS: THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHOULD BE LEVEL AND CLEAR IN THE LENGTH AND THE DIRECTION OF THE DOOR SWING AT LEAST 60", AND THE LENGTH ON THE OPPOSITE SIDE OF THE DOOR SWING AT 44" AS MEASURED PERPENDICULAR TO THE PLAN OF THE DOOR IN ITS CLOSED POSITION.

AVAILABLE SIDE ACCESS TO DOORS: THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 24" PAST THE STRIKE EDGE FOR INTERIOR DOORS.

TOILET CONTROLS: TOILET FLUSH CONTROLS PROVIDED & INSTALLED AS PART OF THE WORK SHALL BE OPERABLE WITH ONE HAND, & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROL FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS. NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NOT GREATER THAN 5 LBS.

OTHER FLUSH CONTROLS: OTHER FLUSH CONTROLS PROVIDED & INSTALLED AS PART OF THE WORK SHALL BE OPERABLE WITH ONE HAND, & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROL FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS. NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NOT GREATER THAN 5 LBS.

ACCEPTABLE DEVICE/FIXTURE CONTROLS: FAUCET CONTROLS OR OTHER OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NOT GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE & ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

ELECTRICAL & MECHANICAL CONTROLS: THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15" ABOVE THE FINISHED FLOOR OR WORKING PLATFORM. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, HVAC EQUIPMENT SHALL BE NOT LESS THAN 36" OR MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORM. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK.

FLOOR FINISHES: FLOOR SHALL BE SLIP RESISTANT.

ENTRY SIGNAGE: ALL DISABLED ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.

TELEPHONES & DRINKING FOUNTAINS: WHEN PROVIDED, AT LEAST ONE TELEPHONE & ONE DRINKING FOUNTAIN IN THE BUILDING SHALL BE ACCESSIBLE & USABLE BY THE PHYSICALLY DISABLED.

ACCESSIBILITY GENERAL NOTES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ELEVATION TAG- SEE DWG. AS NOTED		DETAIL TAG- SEE DWG. AS NOTED		RCP KEY TAG- SEE DWG. AS NOTED		ROOM NUMBER TAG
	INTERIOR ELEVATION TAG- SEE DWG. AS NOTED		PARTITION TYPE TAG- SEE WALL TYPE LEGEND		ELEVATION KEY TAG- SEE DWG. AS NOTED		ELEVATION BENCHMARK
	SECTION TAG- SEE DWG. AS NOTED		PLAN KEY TAG- SEE DWG. AS NOTED		FINISH KEY TAG- SEE DWG. AS NOTED		REVISION TAG

SYMBOL LEGEND

DIVISION OF WORK

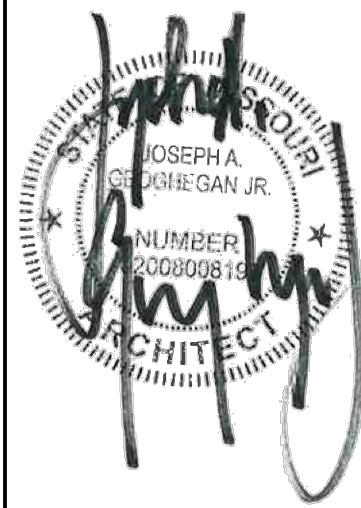
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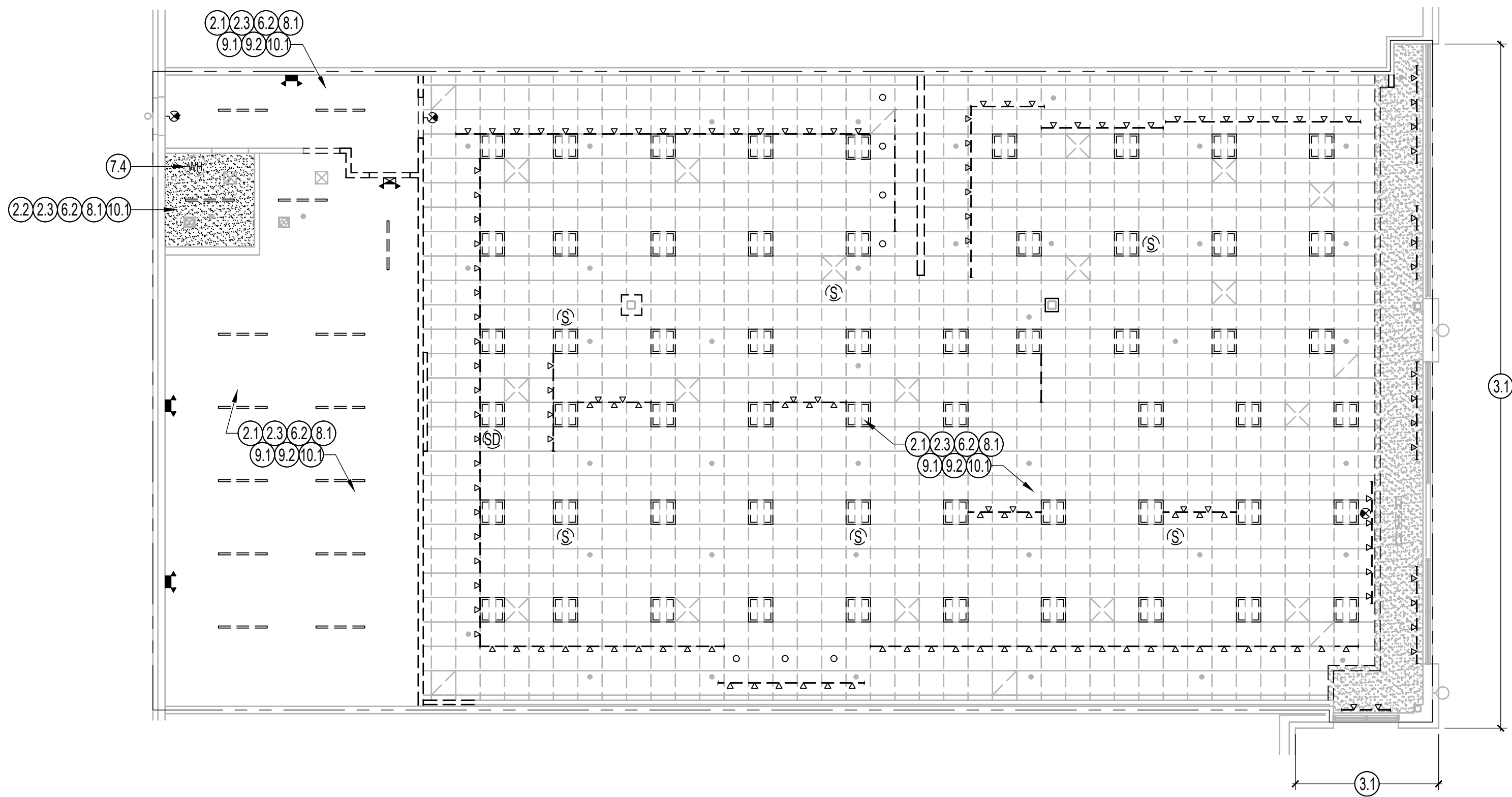
DEMOLITION PLANS

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	D1.1

- DEMOLITION PLANS ARE FOR GENERAL SCOPE. GENERAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITION AND COORDINATE REQUIRED DEMOLITION WITH TENANT & TENANT'S ARCHITECT.
- WHEN EXISTING MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES AND/OR EQUIPMENT ARE TO BE REMOVED, THEY ARE TO BE DISCONNECTED AT THE SOURCE, UNLESS NOTED OR DIRECTED OTHERWISE. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
- ALL EXISTING DUCTWORK TO REMAIN UNLESS INDICATED ON MECHANICAL PLANS. ALL ABANDONED HVAC EQUIPMENT AND DUCTWORK SHALL BE REMOVED UPON DISCOVERY.
- ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL, TELEPHONE OUTLETS, AND ALL ASSOCIATED WIRES IN WALLS TO BE REMOVED AND TERMINATE AT THE LAST OUTLET THAT REMAINS IN SERVICE.
- ALL EMPTY OR ABANDONED CONDUIT AND JUNCTION BOXES TO BE REMOVED.
- DEMOLITION CONTRACTOR SHALL REMOVE ALL EXISTING FLOOR COVERINGS AND/OR FINISHES, UNDERLAYMENT, GLUE AND ANY OTHER ADHESIVE; AND SHALL PATCH REPAIR CONCRETE SLAB AS REQUIRED TO ACCOMMODATE FINAL FLOOR PREP. REFER TO FINISH PLAN FOR ADDITIONAL INFORMATION.
- ALL ABANDONED UTILITIES ARE TO BE REMOVED AS DIRECTED BY LANDLORD OR AS SPECIFIED BY MALL MANAGEMENT. COORDINATE WITH MALL MANAGEMENT OR LANDLORD AS NECESSARY.
- ALL FIREPROOFING AT STRUCTURAL ELEMENTS SHALL REMAIN, UNLESS NOTED OTHERWISE. ANY FIREPROOFING REMOVED AND/OR DAMAGED DURING THE COURSE OF DEMOLITION SHALL BE REPLACED WITH THE SAME MATERIALS AND RATING AS THAT WHICH WAS REMOVED AT THE CONTRACTOR'S EXPENSE.
- LANDLORD ROOFING CONTRACTOR - IF REQUIRED - IS TO REMOVE EXISTING ROOFING INSULATION AND ROOF DECK AS REQUIRED WHERE NEW ROOF TOP EQUIPMENT IS SPECIFIED. G.C. IS TO VERIFY EXACT LOCATION AND EXTENT IN THE FIELD. REFER TO MECHANICAL DRAWINGS.
- PRIOR TO SAWCUTTING OF EXISTING SLAB, G.C. IS TO VERIFY WITH THE LANDLORD THE LOCATION OF ANY AND ALL EXISTING UTILITIES RUNNING THROUGH THE SPACE. IF IT IS DETERMINED THAT UTILITIES ARE PRESENT, BUT EXACT LOCATIONS ARE NOT KNOWN, THEN THE G.C. SHOULD XRAY THE SLAB.
- USE CARE DURING DEMOLITION SO AS NOT TO DISTURB THE REMAINING WALLS, CEILINGS, PIPING AND DUCTWORK. EXISTING DUCTWORK TO BE REVISED BY SHEET METAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR ALL EXISTING DUCTWORK AND SPRINKLER LINES AFFECTED BY THE REMOVAL.
- TENANT RESERVES THE RIGHT TO RETAIN ITEMS AS DESIRED. THE CONTRACTOR SHALL REMOVE RETAINED ITEMS TO A STORAGE AREA AS DIRECTED BY THE TENANT OR HIS REPRESENTATIVE. ALL OTHER MATERIALS AND DEBRIS SHALL BE REMOVED FROM THE BUILDING SITE IMMEDIATELY.
- CONTRACTORS ENGAGED SHALL BE PROTECTED BY THE PROPER INSURANCE AND SHALL FILE EVIDENCE THEREOF WITH THE OWNER'S AGENT, INCLUDING HOLD HARMLESS PROTECTION FOR THE TENANT AND ARCHITECT.
- DEBRIS FROM THE DEMOLITION SHALL BE REMOVED PROMPTLY FROM THE BUILDING BY MEANS APPROVED BY THE LANDLORD.
- DO NOT REMOVE ANY UTILITIES RUNNING THROUGH THE SPACE TO ADJACENT TENANTS.

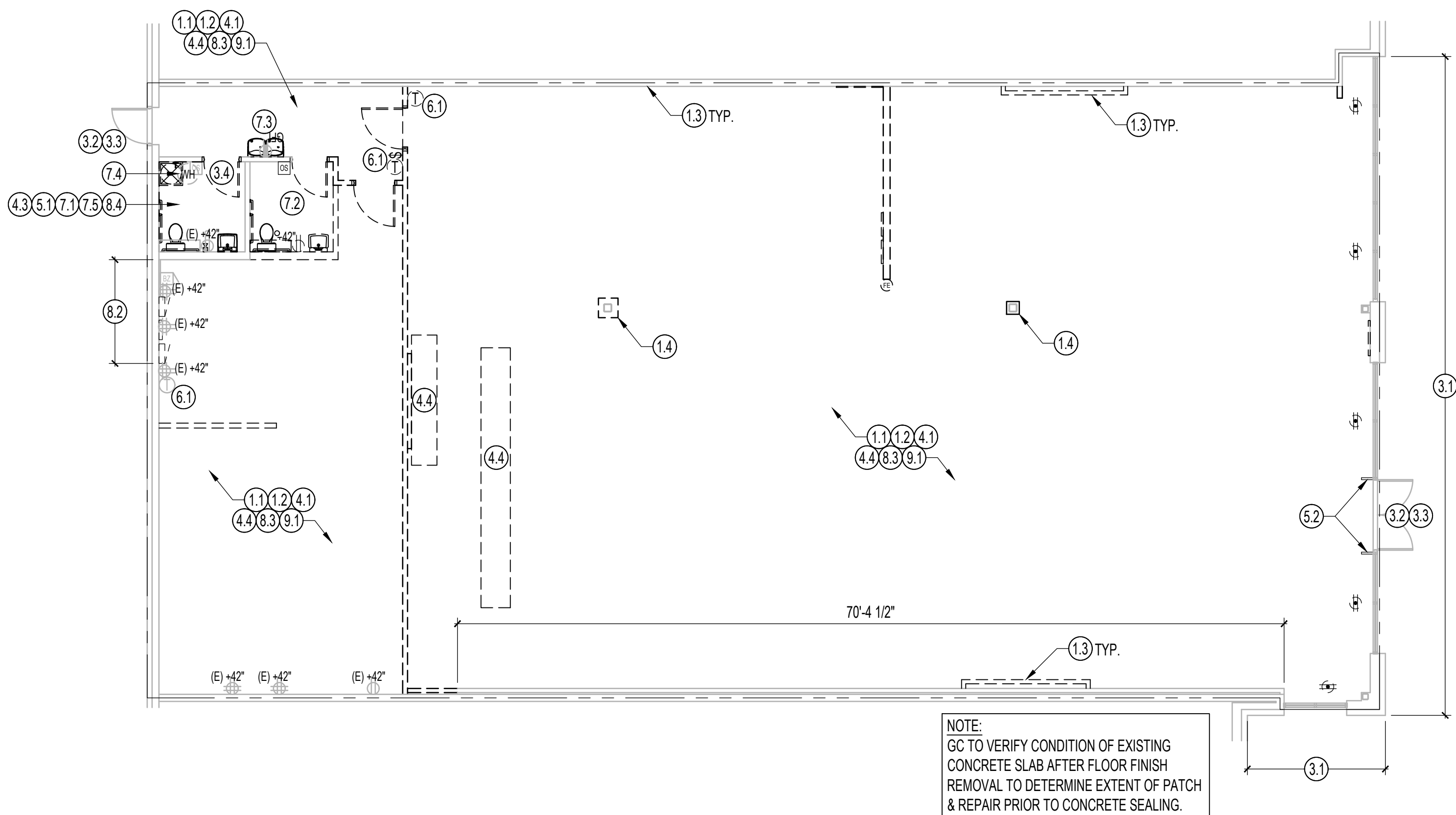
B GENERAL DEMOLITION NOTES

- FRAMING
 - REMOVE INTERIOR PARTITIONS AND INTEGRATED DOORS, FIXTURES, FINISHES AND POWER (SHOWN DASHED.) NOTIFY ARCHITECT IMMEDIATELY IF DEMOLITION EXPOSES ANY UNFORESEEN CONDITIONS.
 - EXISTING WALLS TO REMAIN (SHOWN SOLID GREYSKALE). SEE SHEET A1.1
 - AT DEMISING WALLS IN SALES AREA, G.C. SHALL REMOVE EXISTING BUILD-OUTS WHILE MAINTAINING INTEGRITY OF RATED DEMISING WALLS. G.C. SHALL CONTACT ARCHITECT IF GYP. BD. IS MISSING ON DEMISING WALLS.
 - REMOVE BUILD-OUTS AT STRUCTURAL COLUMNS.
- CEILINGS
 - REMOVE ALL CEILINGS, SOFFITS, FINISHES & LIGHT FIXTURES THROUGHOUT, UNLESS OTHERWISE NOTED.
 - EXISTING GYP. BD. CLNG TO REMAIN, TOILET ROOM. REMOVE ALL LIGHT FIXTURES & ABANDONED EQUIPMENT. PREPARE SURFACE FOR NEW FINISH.
 - REMOVE ALL EXISTING EXIT & EMERGENCY LIGHTS.
- DOORS / GLAZING
 - EXISTING STOREFRONT SYSTEM TO REMAIN
 - EXISTING DOOR TO REMAIN. SEE A-0.1 FOR NEW HARDWARE.
 - REMOVE ALL EXISTING WEATHERSTRIPPING AND PREPARE DOOR SURFACE FOR NEW.
 - REMOVE EXISTING DOOR & FRAME. PREPARE OPENING FOR NEW. SEE SHEET A-0.1
- FIXTURES / FINISHES
 - REMOVE ALL FINISHES, WALL BASE & TRIM THROUGHOUT INTERIOR (TYP. U.N.O). G.C. SHALL ENSURE INTEGRITY OF EXISTING GYP. BD. BENEATH. NOTIFY ARCHITECT IMMEDIATELY IF DEMOLITION EXPOSES ANY UNFORESEEN CONDITIONS.
 - REMOVE ALL FLOORING, THROUGHOUT
 - WITHIN THIS TOILET ROOM TO REMAIN, G.C. SHALL REMOVE ALL FINISHES.
 - REMOVE FIXTURES THROUGHOUT SALES.
- EQUIPMENT
 - ALL TOILET ROOM ACCESSORIES TO BE REMOVED UNLESS OTHERWISE NOTED.
 - REMOVE EXISTING SECURITY SYSTEM
- MECHANICAL
 - REMOVE / RELOCATE THERMOSTAT / TEMPERATURE SENSOR - SEE MECHANICAL SHEETS
 - EXISTING MECHANICAL SYSTEM SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW CEILING CONDITIONS. REMOVE ALL HVAC COMPONENTS NOT BEING RE-USED. (SEE MECHANICAL PLANS).
- PLUMBING
 - THIS TOILET ROOM ONLY - EXISTING TOILET, SINK & MOP SINK TO BE REMOVED. ASSOCIATED PLUMBING TO REMAIN AND RE-USED WITH NEW FIXTURES.
 - THIS TOILET ROOM ONLY - EXISTING TOILET, SINK, FLOOR DRAIN, MOP SINK AND ALL ASSOCIATED PLUMBING TO BE REMOVED COMPLETELY.
 - EXISTING DRINKING FOUNTAIN TO BE REMOVED. EXISTING WATER LINES / ELECTRICAL TO BE RE-USED IF FEASIBLE FOR NEW WATER HEATER. SEE PLUMBING DRAWINGS.
 - EXISTING WATER HEATER TO BE REMOVED. EXISTING WATER LINES / ELECTRICAL TO BE RE-USED IF FEASIBLE FOR NEW WATER HEATER. SEE PLUMBING DRAWINGS.
 - EXISTING FLOOR DRAIN TO REMAIN.
- ELECTRICAL
 - REMOVE ALL LIGHTING THROUGHOUT. SEE SHEET A2.1
 - EXISTING ELECTRICAL PANELS TO BE REMOVED. SEE ELECTRICAL SHEETS
 - REMOVE EXISTING OUTLETS THROUGHOUT, INCLUDING ALL FLOOR OUTLETS UNLESS OTHERWISE NOTED. REMOVE WIRE TO SOURCE.
 - EXISTING OUTLETS / OCCUPANCY SENSOR TO REMAIN THIS ROOM
- LOW VOLTAGE COMMUNICATION SYSTEM
 - ALL EXISTING ELECTRIC, VOICE AND DATA COMPONENTS ARE TO BE REMOVED, UNLESS NOTED OTHERWISE. SEE ELECTRICAL SHEETS. DO NOT REMOVE UTILITY PROVIDER DEVICES OR CABLING ON THE PRIMARY SIDE OF UTILITY PROVIDER DEVICES.
 - REMOVE EXISTING SPEAKERS, CAMERAS AND SECURITY DEVICES THROUGHOUT
- FIRE SUPPRESSION / SPRINKLER SYSTEM
 - EXISTING SPRINKLER / HEAD LOCATION TO REMAIN IN PROPOSED 'OPEN TO DECK' & EXISTING GYP. CEILING AREAS. INSPECT AND ENSURE PROPER WORKING ORDER (TYP.) C. SHALL PROTECT DURING CONSTRUCTION.



2 DEMOLITION CEILING PLAN

SCALE
1/8"=1'-0"

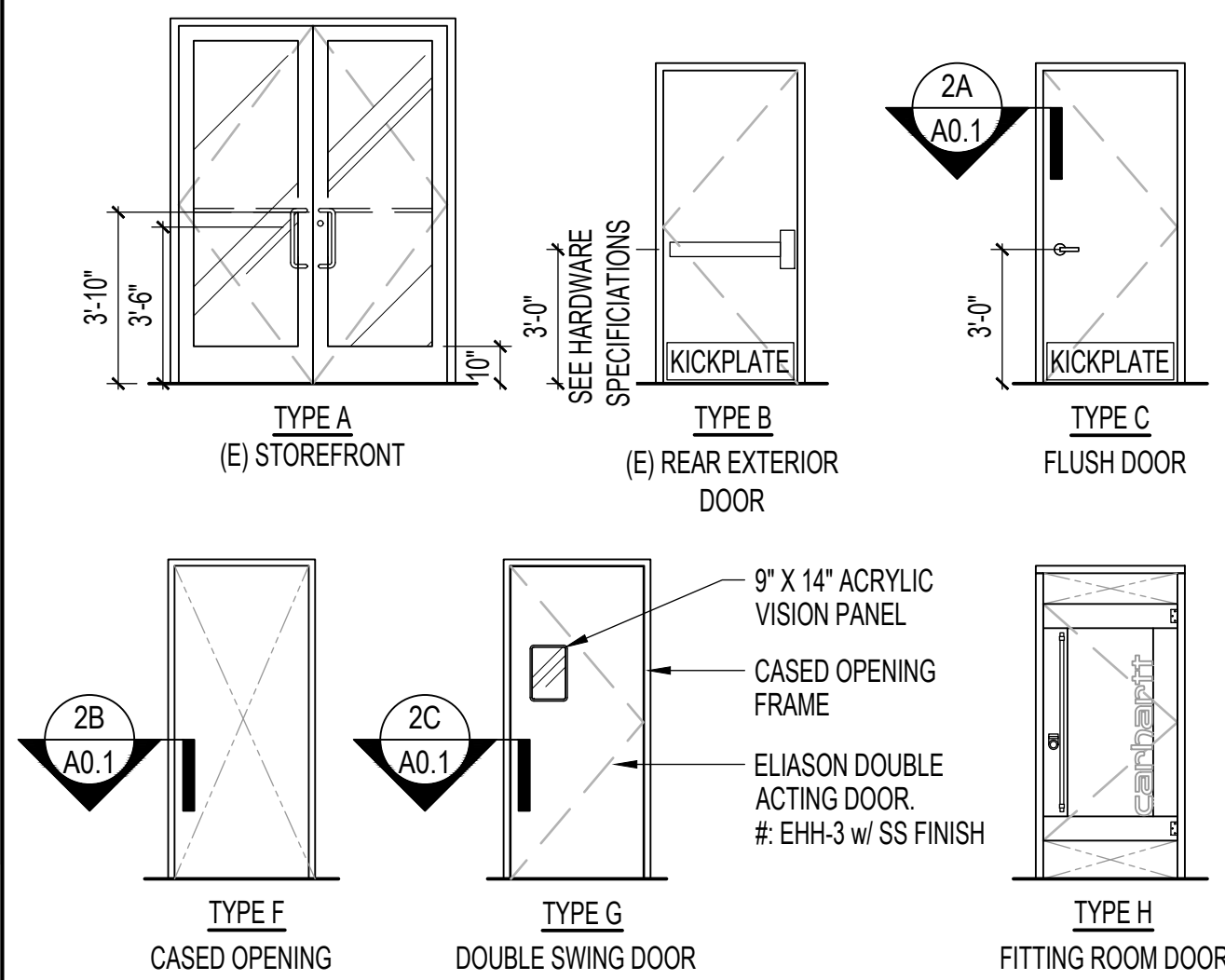


1 DEMOLITION FLOOR PLAN

SCALE
1/8"=1'-0"

A KEY NOTES

#

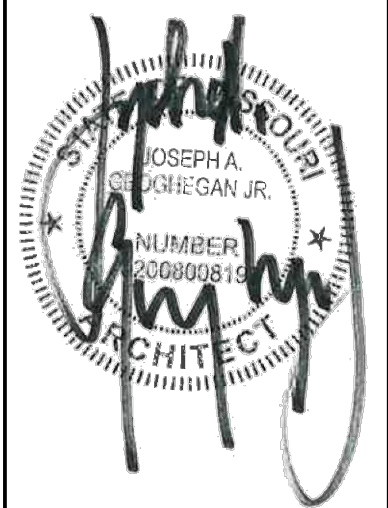


1. NO SUBSTITUTIONS ON DOOR HARDWARE
2. MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN THE FOLLOWING PUBLICATIONS, EXCEPT AS SPECIFICALLY INDICATED AND/OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS INCLUDING ADA.
 - A. "RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS & FRAMES" BY DOOR & HARDWARE INSTITUTE
 - B. "HARDWARE LOCATIONS FOR WOOD FLUSH DOORS" BY NMDA INDUSTRY STANDARD INSTITUTE
3. C. WHEN FLUSH BOLTS ARE PROVIDED, THE UPPER BOLT MECHANISM TO BE NO HIGHER THAN 6'-0" AFF THE BOTTOM 1" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE NOOBS UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHEN NARROW FRAME DOORS ARE USED, A 10" H. SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION
4. ALL NEW AND EXISTING PASSAGE, LOCKSETS, ECT. TO HAVE LEVER HANDLES. REPLACE EXISTING HANDLES AS REQUIRED
5. DOOR HARDWARE CONSTRUCTION CORES TO REMAIN. OWNER TO REMOVE AND INSTALL. FINAL CORES
6. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
7. THE FORCE REQUIRED TO OPEN A DOOR IN THE REQUIRED MEANS OF EGRESS SHALL BE IN ACCORDANCE WITH SECTION 7.2.1.4.5. NFPA 101 2006 EDITION
8. THE MAXIMUM FORCE FOR PUSHING OR PULLING ALL INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS
9. DOOR HARDWARE MUST BE ADA COMPLIANT
10. ALL RATED DOORS SHALL HAVE SMOKE AND DRAFT CONTROL WITH GASKETS TO SEAL.

			FURN. & INST BY G.C.	FURN. BY OWNER/ INST BY GC	EXISTING	MILLWORK	NOT USED
<h2 style="text-align: center;">PAINT</h2>							
NOTE: ALL WALLS SHALL BE EGGSHELL, ALL DRYWALL CEILINGS SHALL BE FLAT, DOORJAMBS TO BE SATIN. BEFORE PURCHASE PROVIDE DRAW-DOWN TO ARCHITECT FOR APPROVAL							
P-1	PPG PAINTS ; PPG1008-2_STORM'S COMING	●					
P-2	PPG PAINTS ; PPG1001-6_KNIGHT'S ARMOR NOTE: DRY FALL CANNOT BE USED ON WALLS.	●					
P-5	BENJAMIN MOORE - OC-152 SUPER WHITE - FLAT	●					
P-8	SHERWIN WILLIAMS SW6991 (BLACK MAGIC)	●					
P-9	BENJAMIN MOORE MARDI GRAS GOLD. 2019-10	●					
<h2 style="text-align: center;">WALL BASE</h2>							
B-1	1X4 WOOD BASE (3/4" X 3 1/2") - STAINED WITH VARATHANE PREMIUM WOOD STAIN "EARLY AMERICAN" WITH VARATHANE ULTIMATE POLYURETHANE WATER BASED TOP COAT "CRYSTAL CLEAR SATIN"	●					
B-2	FLEXCO TRADITIONAL 4" VINYL BASE; COLOR 34 BARLEY (6" IN TOILET ROOMS)	●					
B-4	1 X 4 (3/4" X 3 1/2") WOOD BASE- PAINT P-8 IN THE FIELD	●					

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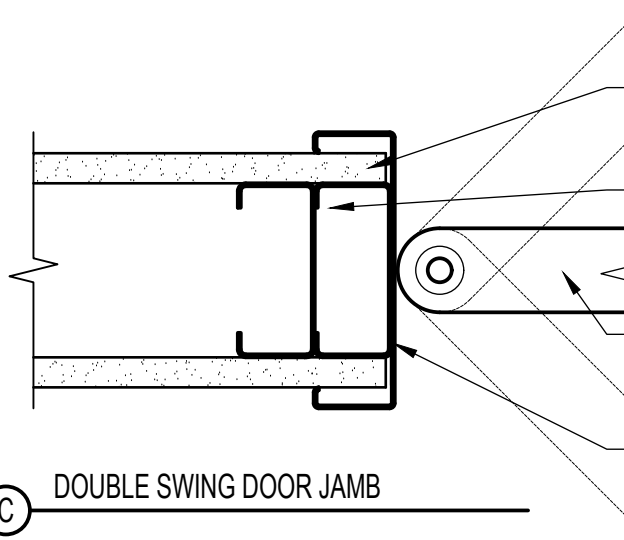
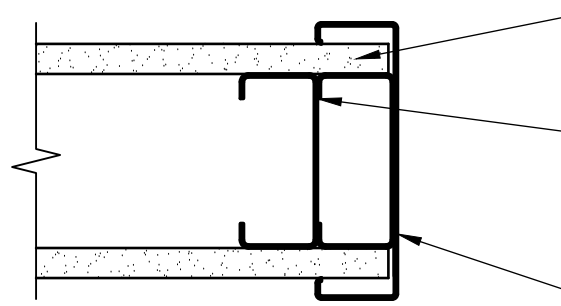
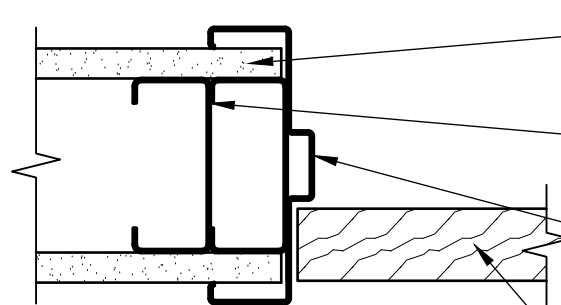
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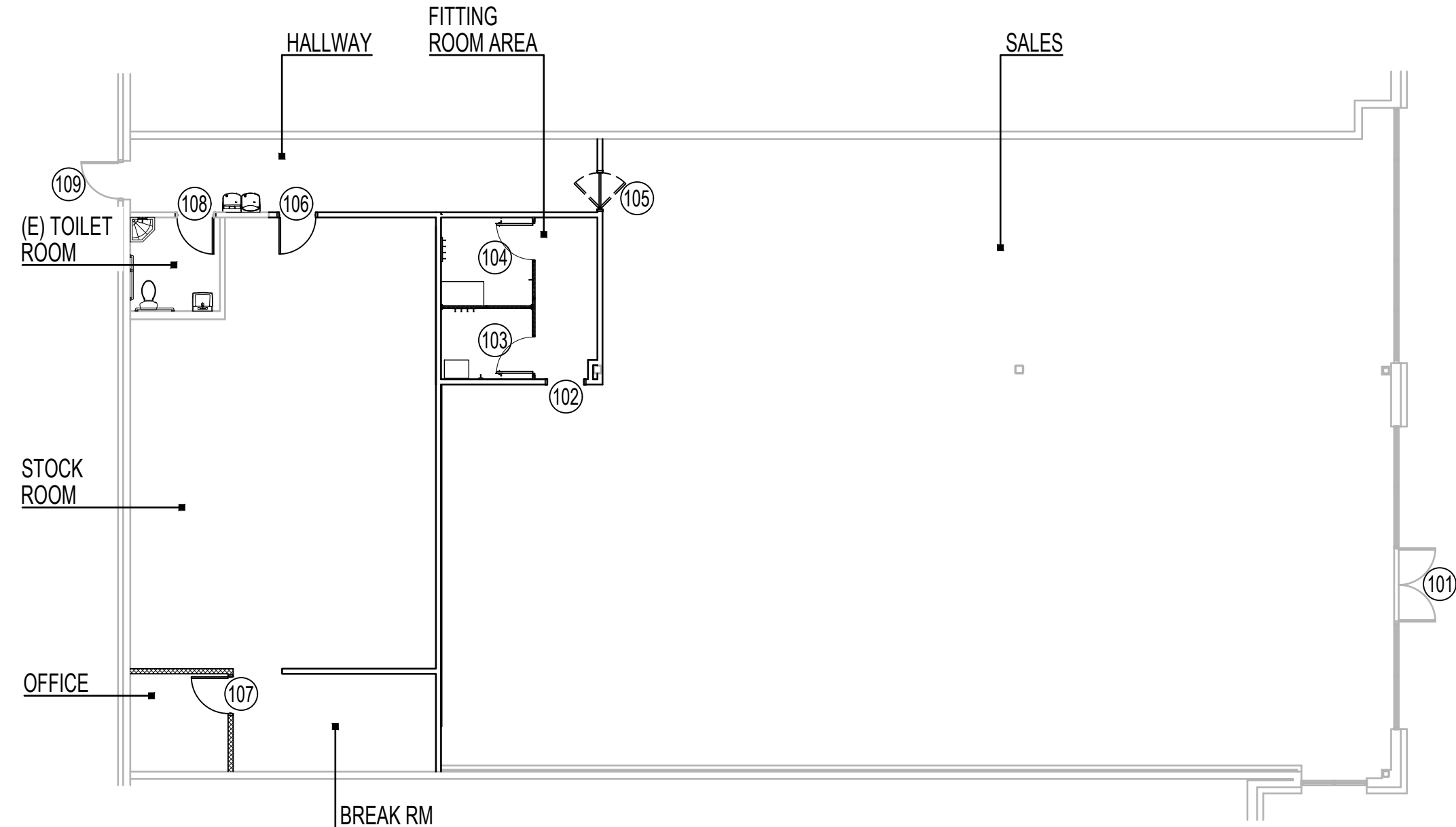
SCHEDULES

DRAWN BY
SLS
CHECKED BY
SL
JOB NUMBER
25303
SHEET NAME

A-0.1

9	MATERIAL SUMMARY				8	DOOR TYPES								
OPENING					DOOR					FRAME			KEY	REMARKS
MARK	STATUS	LOCATION	SIZE	TYPE	STATUS	HARDWARE	SIZE	MATERIAL	FINISH	STATUS	MATERIAL	FINISH		
101	EXISTING	ENTRY	6'-0" X 7'-0"	A	EXISTING	4	(2) 3'-0" X 7'-0"	ALUM. / GLASS	BLACK	EXISTING	ALUM.	BLACK	AA	1
102	NEW	FITTING RM AREA	3'-0" X 7'-0"	F	N/A	N/A	N/A	N/A	N/A	NEW	H.M.	P-1	-	
103	NEW	FITTING ROOM	3'-0" X 7'-0"	H	NEW	6	3'-0" X 5'-4" X 1 3/4"	WOOD/ LAMINATE	LAM	NEW	STEEL	N/A	AF	2
104	NEW	FITTING ROOM	3'-0" X 7'-0"	H	NEW	6	3'-0" X 5'-4" X 1 3/4"	WOOD/ LAMINATE	LAM	NEW	STEEL	N/A	AF	2
105	NEW	HALLWAY	3'-0" X 7'-0"	G	N/A	N/A	3'-0" X 7'-0" X 1 3/4"	WOOD	S.S.	NEW	H.M.	P-1	-	5
106	NEW	STOCKROOM	3'-0" X 7'-0"	C	NEW	2	3'-0" X 7'-0" X 1 3/4"	S.C.WOOD	P-1	NEW	H.M.	P-1	AF	
107	NEW	OFFICE	3'-0" X 7'-0"	C	NEW	2	3'-0" X 7'-0" X 1 3/4"	S.C. WOOD	P-1	NEW	H.M.	P-1	AA	
108	EXISTING	TOILET ROOM	3'-0" X 7'-0"	C	NEW	1	3'-0" X 7'-0" X 1 3/4"	S.C.WOOD	P-1	NEW	H.M.	P-1	AF	4
109	EXISTING	REAR EXIT	3'-0" X 7'-0"	B	EXISTING	3	3'-0" X 7'-0"	H.M.	NOTE 3	EXISTING	H.M.	NOTE 3	AA	1, 3, 6
REMARK NOTES: 1. EXISTING DOOR & FRAME WITH NEW DOOR HARDWARE. SEE HARDWARE SCHEDULE. 2. FITTING ROOM DOORS TO BE OWNER PROVIDED, G.C. INSTALLED. REFER TO APPROVED VENDOR SHOP DRAWINGS FOR INSTALLATION. HARDWARE TO BE INSTALLED BY GC. 3. INTERIOR TO BE PAINTED P-1, EXTERIOR TO BE PAINT TO MATCH PROPERTY SPEC. INSTALL SUITE # ON EXTERIOR PER LANDLORD REQUIREMENTS. 4. UNDERCUT DOOR 1" FOR RETURN AIR PATH 5. SALES SIDE OF FRAME TO BE 'P-8', STOCK SIDE TO BE 'P-1' 6. PATCH HOLES / REPAIR DOOR														
7	DOOR SCHEDULE													
108 SET 1 - TOILET ROOM : HINGES: STANLEY # FBB199, 1 1/2 PR. PER DOOR 4 1/2" X 4 1/2" FINISH: 626 SATIN CHROME LOCKSET: SCHLAGE ND738 RHO 626 DOOR STOPS: TRIMCO 1270CV (PULL SIDE WALL ONLY) KICK PLATE: IVES 8"X34" STAINLESS STEEL, MFR# 8400 S 32D 8X24 (PUSH SIDE ONLY) SILENCERS CLOSER : LCN 4041 SUPER SMOOTHIE SURFACE CLOSER														
106 SET 2 - OFFICE / STOCKROOM														
107 HINGES: STANLEY # FBB199, 1 1/2 PR. PER DOOR 4 1/2" X 4 1/2" FINISH: STAINLESS STEEL LOCKSET: SCHLAGE ND708 RHO 626 DOOR STOPS: TRIMCO 1270CV (PULL SIDE WALL ONLY) KICK PLATE: IVES 8"X34" STAINLESS STEEL, MFR# 8400 S 32D 8X24 (PUSH SIDE ONLY) SILENCERS CLOSER : LCN 4041 SUPER SMOOTHIE SURFACE CLOSER KICK PLATE: IVES 8"X34" STAINLESS STEEL, MFR# 8400 S 32D 8X24 (PUSH SIDE ONLY)														
109 SET 3 - REAR EXIT: HARDWARE: 'DETEx' SELF CONTAINED DOOR ALARM W/ BATTERY #ECL-230D W/ STANDARD HARDWARE & IC7/IC7R. ADD EXTERIOR DOOR PULL CYLINDER: TO ACCEPT SMALL FORMAT INTERCHANGEABLE CORE. HINGES: EXISTING DOOR STOPS: EXISTING KICK PLATE: EXISTING SILENCERS: EXISTING CLOSER: EXISTING PEEP HOLES: EXISTING NOTE: ALL WEATHERSTRIPPING, THRESHOLD & SWEEP TO BE REPLACED														
103 SET 4 - ENTRY: PULLS : EXISTING HINGES : EXISTING LOCKSET : REPLACE DEADLOCK LEVER WITH NEW (BLACK ANODIZED) ADDITIONAL LOCKING: STRIKES : EXISTING CYLINDERS : REPLACE CYLINDER WITH NEW TO ACCEPT SMALL FORMAT INTERCHANGEABLE CYLINDER (BLACK ANODIZED) CLOSER : EXISTING ALUMINUM THRESHOLD : BARRIER FREE WITH WEATHER STRIPPING & BOTTOM SWEEP NOTE: ALL WEATHERSTRIPPING, THRESHOLD & SWEEP TO BE REPLACED														
SET 6 - FITTING ROOM ALL HARDWARE IN FITTING ROOMS FURNISHED BY OWNER														
103 HINGES: SCHLAGE #53P1011FRP622. 3 1/2" X 3 1/2" PLAIN BEARING 5/8" RADIUS. FINISH: 622														
104 MATTE BLACK DOOR PULLS: ROCKWOOD ASSA ABLOY. RM4160, BLACK POWDER COAT (BPC); TYPE 5 MOUNTING DETAIL (ONE ON EACH SIDE) LOCKSET: SCHLAGE: B560B 622. IS-OCC, OS-OCC DOOR STOPS: BALDWIN 4015.190; 4015 CONVEX WALL BUMPER; 190 SATIN BLACK (PULL SIDE WALL ONLY) STRIKEPLATE: SILENCER: ADD CONTINUOUS FELT/RUBBER STRIP IN BLACK FINISH. SPEC. T.B.D.														
NOTE: OWNER'S VENDOR WILL PROVIDE THE FOLLOWING KEYS: AA : 7 AF : 12 AA (KNOX BOX) : 1														
NOTE: OWNER'S VENDOR WILL PROVIDE FINAL CORES FOR ALL LOCKING DOORS (IN THE FINAL DAYS OF CONSTRUCTION)														
6	HARDWARE SCHEDULE													

5	DOOR GENERAL NOTES	
<div>1. ALL FINISH MATERIALS TO BE CLASS 1: = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 200</div> <div>2. G.C. SHALL VERIFY THAT THE MAXIMUM THRESHOLD HEIGHT DOES NOT EXCEED 1/2"</div> <div>3. NEW WEATHER-STRIPPING TO BE INSTALLED ON ALL EXISTING EXTERIOR DOORS AS REQUIRED.</div>		
3	FINISH GENERAL NOTES	
<div><div></div><div><div>5/8" TYPE 'X' GYP.BD. BOTH SIDES</div><div>(2) 3-5/8" METAL STUDS AT JAMB</div><div>DOOR: DOUBLE SWINGING STAINLESS STEEL DOOR</div><div>PAINT READY 3-PIECE METAL KNOCK DOWN (KD) CASSED OPENING</div></div><div><div>C</div><div>DOUBLE SWING DOOR JAMB</div></div></div>		
<div><div></div><div><div>5/8" TYPE 'X' GYP.BD. BOTH SIDES</div><div>(2) 3-5/8" METAL STUDS AT JAMB</div><div>PAINT READY 3-PIECE METAL KNOCK DOWN (KD) CASSED OPENING</div></div><div><div>B</div><div>METAL FRAME CASSED OPENING DETAIL</div></div></div>		
<div><div></div><div><div>5/8" TYPE 'X' GYP.BD. BOTH SIDES</div><div>(2) 3-5/8" METAL STUDS AT JAMB</div><div>PAINT READY 3-PIECE METAL KNOCK DOWN (KD) DOOR FRAME</div><div>WOOD OR METAL DOOR. SEE DOOR SCHEDULE</div></div><div><div>A</div><div>METAL FRAME DOOR JAMB DETAIL</div></div></div>		
2	DOOR DETAILS	
		<div>SCALE</div> <div>3"=1'-0"</div>



1	DOOR KEY PLAN	SCALE
		N.T.S.

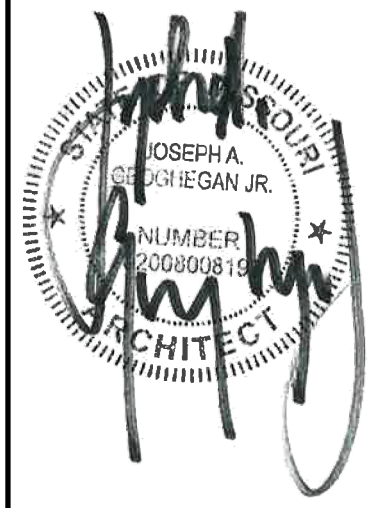


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SUMMIT WOODS
CROSSING

1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

CONSTRUCTION PLAN,
SCHEDULE & NOTES

DRAWN BY:	SLS
CHECKED BY:	SL
JOB NUMBER:	25303
SHEET NAME:	A-1.1

- ALL WOOD FURRING AND BLOCKING SHALL BE FIRE-RETARDANT TREATED - TYPICAL.
- ALL DIMENSIONS TO BE TO FINISHED SURFACES UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND COORDINATE DIMENSIONS WITH VARIOUS TRADES BEFORE FABRICATION OR PURCHASE OF FIXTURES, MILLWORK, COUNTERS, ETC.
- REQUIREMENTS AND DESIGN DATA SHALL BE FOLLOWED ENTIRELY, REGARDLESS OF WHETHER THEY ARE GIVEN BY BOTH THE SPECIFICATIONS AND DRAWINGS OR BY EITHER ONE ONLY.
- SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT.
- CONTRACTORS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS AND BY SUPERVISION OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR THE FOLLOWING:
 - COMPLIANCE WITH CONTRACT DOCUMENTS.
 - DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS.
 - COORDINATION OF THE VARIOUS TRADES.
 - SAFE CONDITIONS AT THE JOB SITE.
- UNLESS OTHERWISE NOTED, ALL DETAILS, SECTIONS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE.
- GC TO PROVIDE FIRE EXTINGUISHERS TO MEET LOCAL CODE REQUIREMENTS.

A GENERAL NOTES

- LIGHT METAL STRUCTURAL PARTITION BOTTOM TRACKS MAY BE FASTENED TO CONCRETE SLAB USING LOW-VELOCITY POWER DRIVEN PINS FOLLOWING THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS UNLESS OTHERWISE NOTED. THE FASTENING SYSTEM USED SHALL BE AS MANUFACTURED BY HILTI (ICBO REPORT NO. ESR-2269) OR APPROVED EQUAL. PINS SHALL HAVE A MINIMUM SHANK DIAMETER OF 0.157", A MINIMUM LENGTH OF 1-1/8", AND SHALL BE SPACED AT 16" O.C. MAXIMUM.
- THE TOP TRACK OF EACH FULL HEIGHT WALL SHALL BE ATTACHED DIRECTLY TO THE FRAMING WHEN THE WALL IS PERPENDICULAR TO FRAMING AND TO BLOCKING BETWEEN FRAMING @ 4'-0" O.C. WHEN THE WALL IS PARALLEL TO THE FRAMING.
- PROVIDE MIN. 2'-0" HIGH CEMENT BOARD @ FLOOR BEHIND ALL FIBERGLASS REINFORCED PANELS.
- PROVIDE CEMENT BOARD UNDER ALL WALL TILE WHERE APPLICABLE.
- ALL BRACING AND SUSPENDED COMPONENTS ARE FROM STRUCTURE (NOT FROM DECK), DO NOT PENETRATE THROUGH DECK ABOVE.
- GYP/UM BOARD SHALL BE ATTACHED WITH #6 SCREWS MINIMUM UNLESS NOTED OTHERWISE.

B PARTITION NOTES

NON-BEARING METAL STUD SCHEDULE			
STUD SIZE*	SPACING	MAX. HEIGHT (W/ FLEXIBLE FINISH)	
362S162-18	16" O.C.	13'-6"	
362S162-33	16" O.C.	21'-1"	
362S162-43	12" O.C.	25'-0"	
600S162-33	16" O.C.	30'-0"	
*STUDS BY ANGELES METAL SYSTEMS, ICBO NO.1715 OR APPROVED EQUAL			

C STUD SCHEDULE

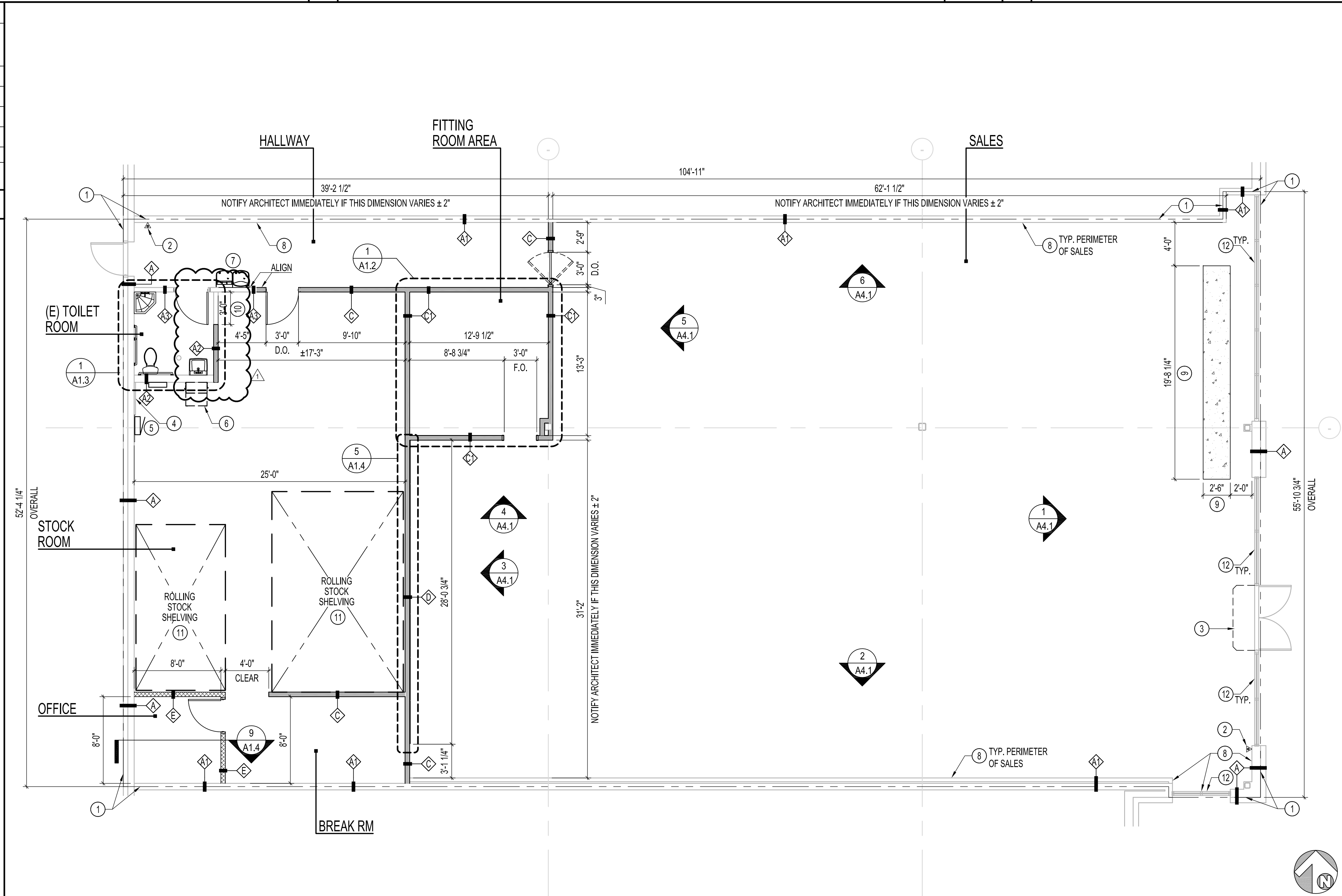
NOTE:
G.C. TO CALL CARHARTT PM DURING FRAMING STAGE TO DISCUSS ANY FIELD DIMENSIONS DISCREPANCIES PRIOR TO FRAMING. ESPECIALLY OVERALL SALES FLOOR AND STOCKROOM DIMENSIONS. FAILURE TO DO SO CAN RESULT IN G.C. RE-FRAMING AT THEIR EXPENSE

NOTE:
PRIOR TO FRAMING G.C. SHALL VERIFY NEW WALLS DO NOT CONFLICT WITH EXISTING HVAC DROPS & PIPES. FAILURE TO DO SO CAN RESULT IN G.C. RE-FRAMING AT THEIR EXPENSE

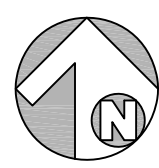
NOTE:
ALL EXISTING WALLS IN SALES AREA TO BE BROUGHT UP TO LEVEL 5 FINISH.

EXTERIOR PARTITION	EXISTING DEMISING PARTITION	EXISTING INTERIOR PARTITION / PLATFORM GUARD	EXISTING INTERIOR PARTITION
WALL TYPE	WALL TYPE	WALL TYPE	WALL TYPE
FULL HEIGHT PARTITION	FULL HEIGHT PARTITION	FULL HEIGHT PARTITION - PANT WALL	PARTIAL HEIGHT PARTITION
WALL TYPE	WALL TYPE	WALL TYPE	WALL TYPE

3	WALL TYPES	SCALE 1"=1'-0"	-	KEY NOTES	#
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1 CONSTRUCTION PLAN / FINISH PLAN



SCALE
3/16" = 1'-0"

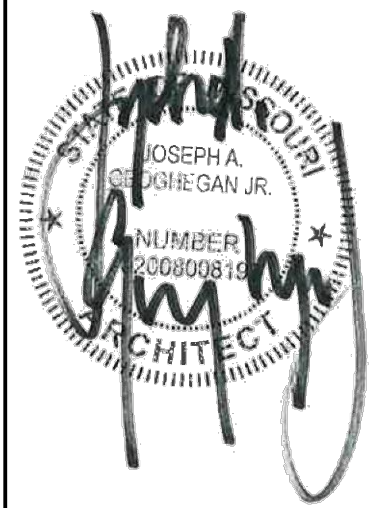
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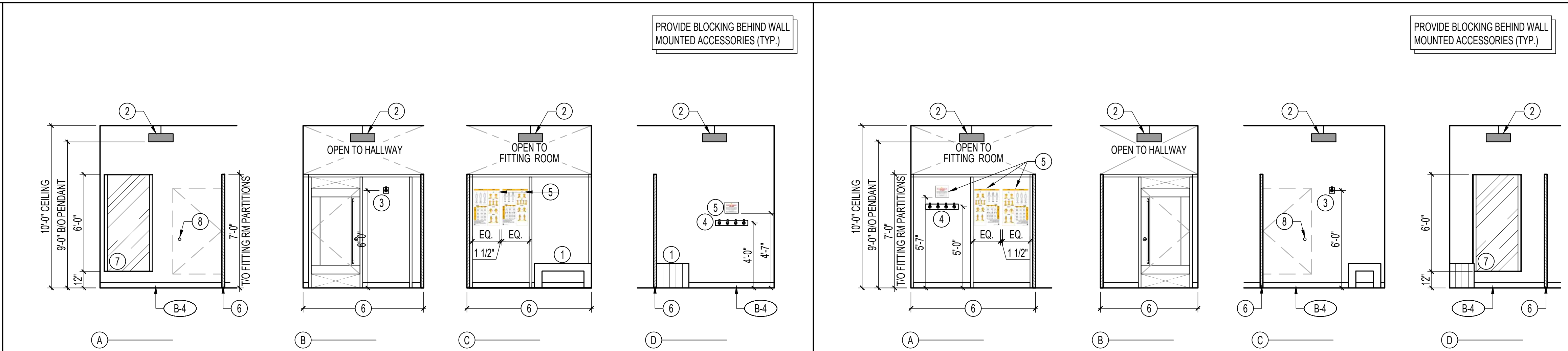
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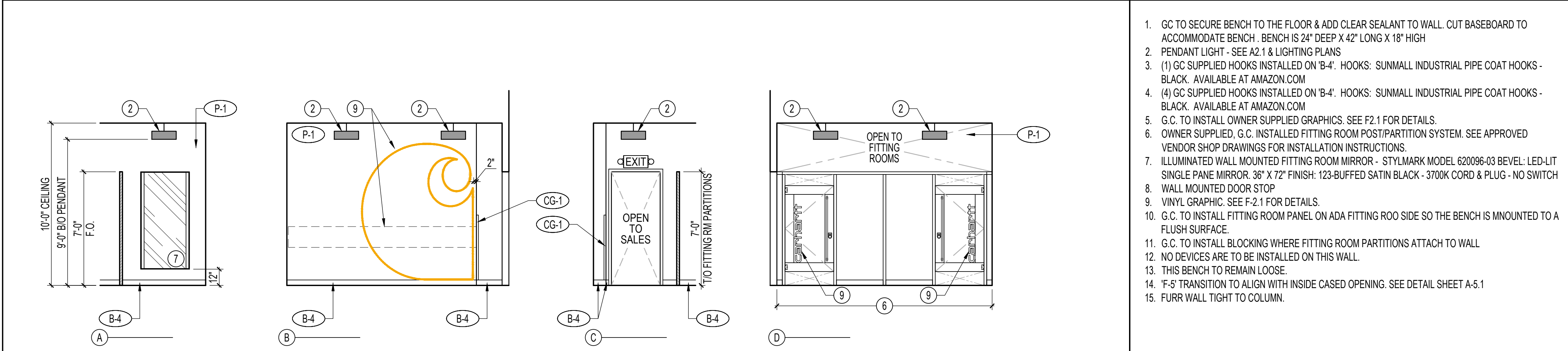
FITTING ROOM DETAILS

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-1.2



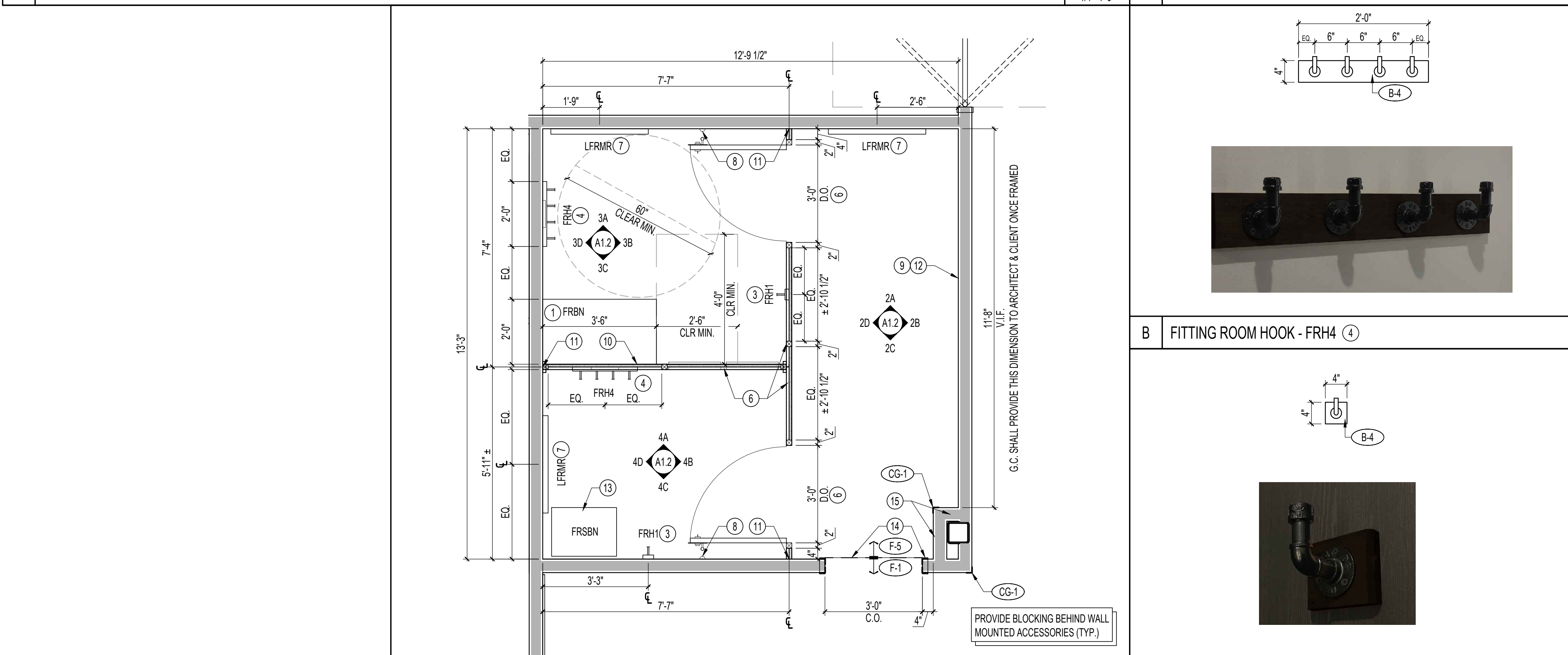
3 ELEVATIONS - ADA FITTING ROOM SCALE 1/4"=1'-0"

4 ELEVATIONS - FITTING ROOM SCALE 1/4"=1'-0"



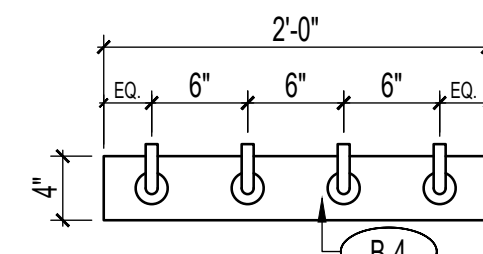
2 ELEVATIONS - FITTING ROOM HALLWAY SCALE 1/4"=1'-0"

- KEY NOTES (#)

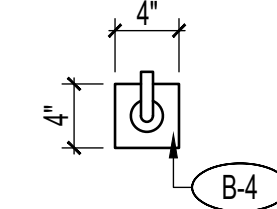


1 ENLARGED PLAN - FITTING ROOMS SCALE 1/2"=1'-0"

A FITTING ROOM HOOK - FRH1 (3)



B FITTING ROOM HOOK - FRH4 (4)



A FITTING ROOM HOOK - FRH1 (3)

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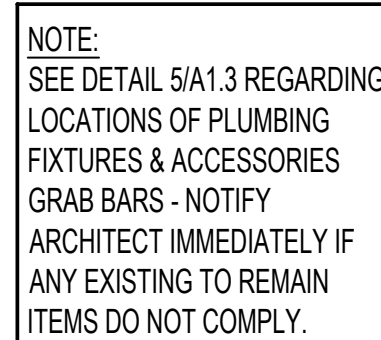
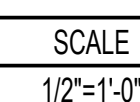
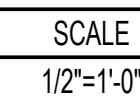
Professional Engineer Seal for Joseph A. McGuigan, Jr., State of Missouri, License Number 200800819, Mechanical Engineering.

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A-1.3

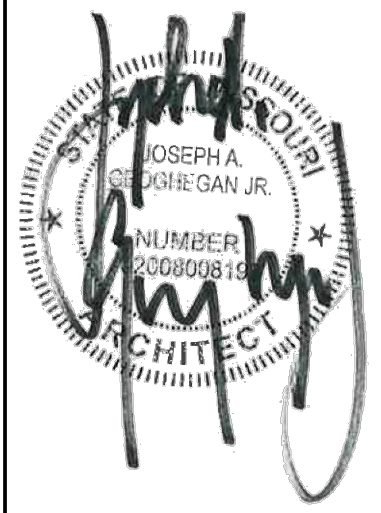


1. REQUIRED LOCATION OF FLUSH VALVE.
2. LOCATION OF EXISTING FIRE SPRINKLER INSPECTORS VALVE
3. LOCATION OF EXISTING FLOOR DRAIN. REPAIR AS REQUIRED AFTER REMOVAL OF EXISTING TILE. NEW CAP SHALL BE FLUSH WITH FLOOR.
4. LOCATION OF EXISTING PLUMBING TO BE REUSED FOR NEW FIXTURES

#

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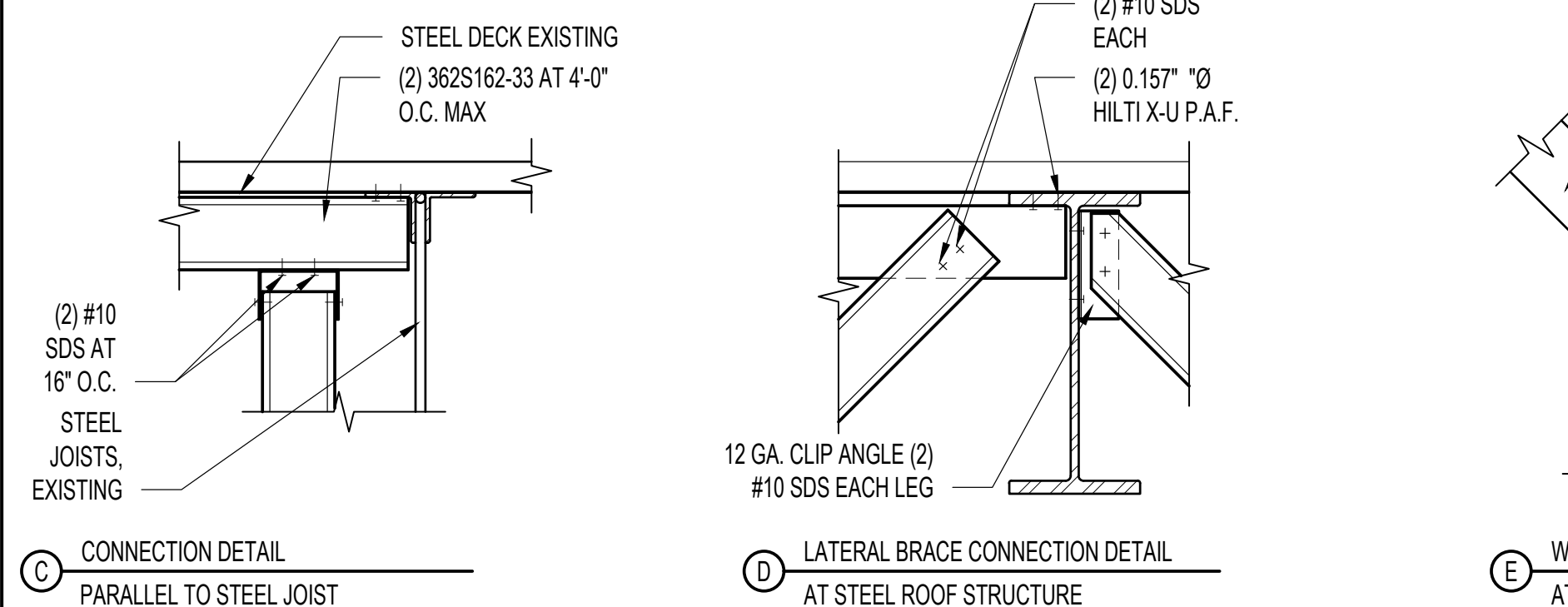
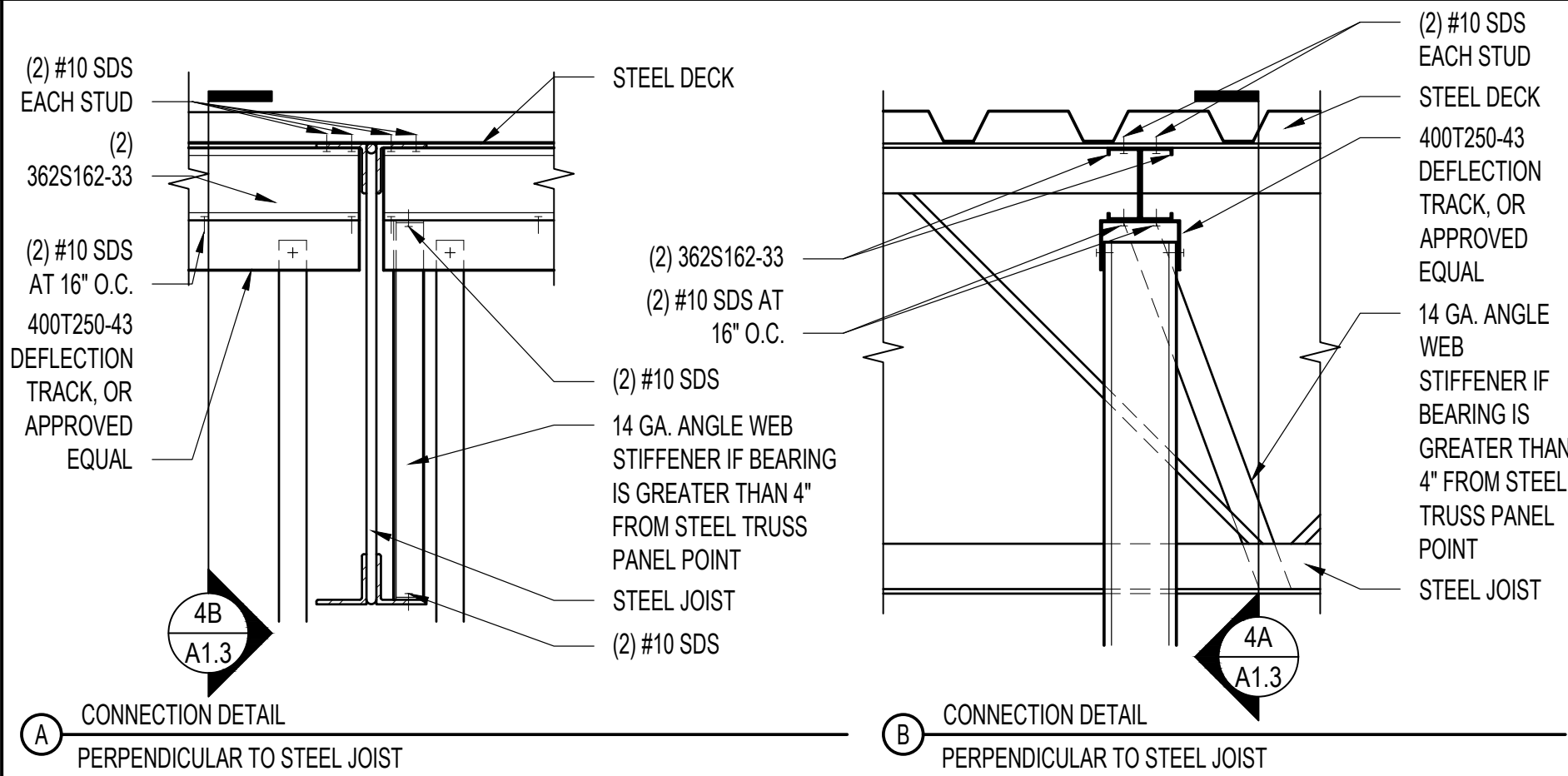
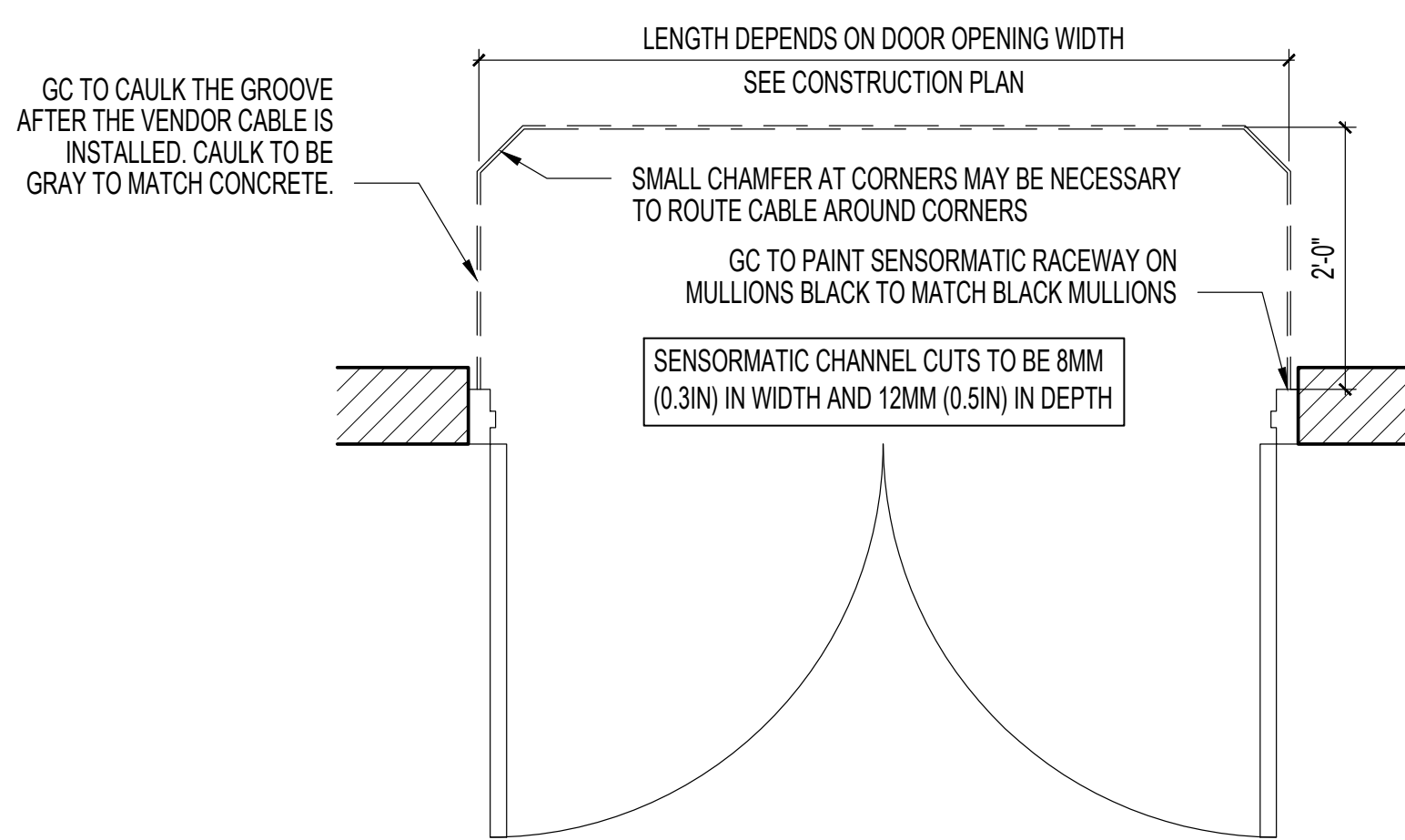
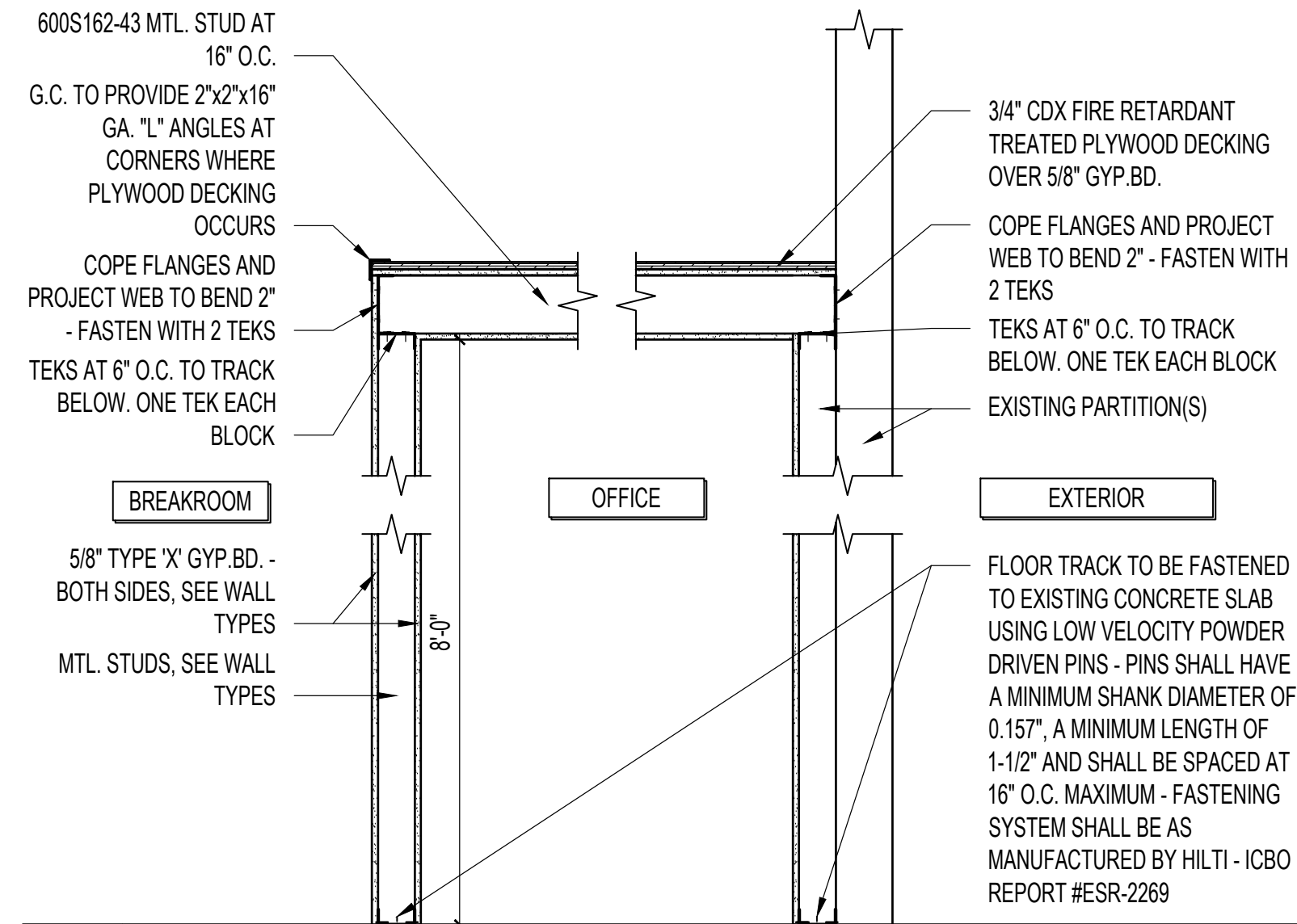


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LEE'S SUMMIT, MO 64081

CONSTRUCTION DETAILS

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-1.4



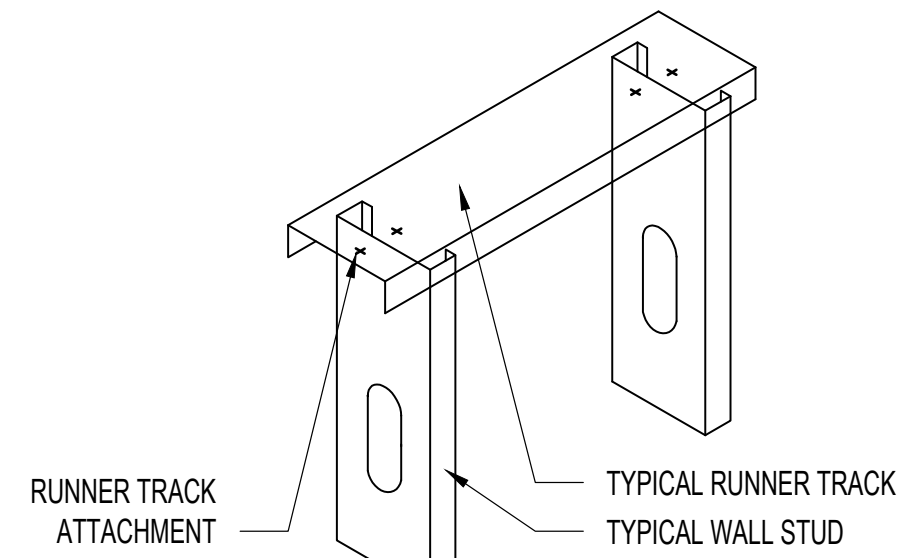
NOTE:
NOTHING IS PERMITTED TO BE ATTACHED SUSPENDED FROM OR PENETRATED THROUGH THE ROOF DECK ABOVE. G.C. REQUIRED TO FRAME, BRACE AND SUSPEND FROM THE TOP CHORD OF THE JOIST OR STRUCTURAL STEEL WHICH EXISTS ABOVE YOUR TENANT SPACE.

9 STOCKROOM / OFFICE PLATFORM DETAIL

8 SENSORMATIC CHANNEL DETAIL

SCALE
3/4" = 1'-0"

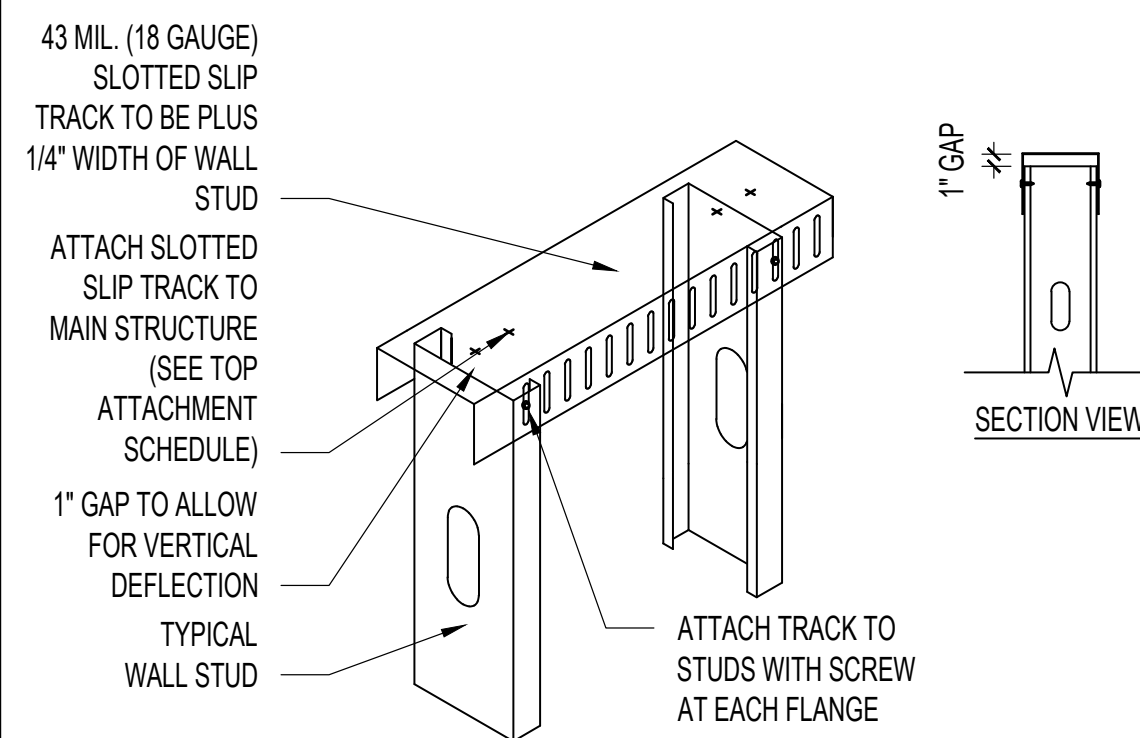
4 CONNECTION DETAILS



TOP TRACK ATTACHMENT SCHEDULE			
MATERIAL	FASTENER	SPACING	REMARKS
CONCRETE	HILTI X-U, 0.157" SHANK, 1-1/2" MINIMUM PENETRATION, 2,000 PSI MINIMUM CONCRETE ESR-2269	16" O.C.	EMBED 1" MINIMUM
STEEL	(1) - #10 SCREW	32" O.C.	MATERIAL > 43 MILS (> 18 GAUGE)
	(1) - #10 SCREW	16" O.C.	MATERIAL < 43 MILS (< 18 GAUGE)
OTHER	ATTACHMENT TO BE APPROVED BY DESIGN ENGINEER		

NOTE:
FOR ALTERNATE GAP AMOUNT, NOTIFY ARCHITECT/ENGINEER.

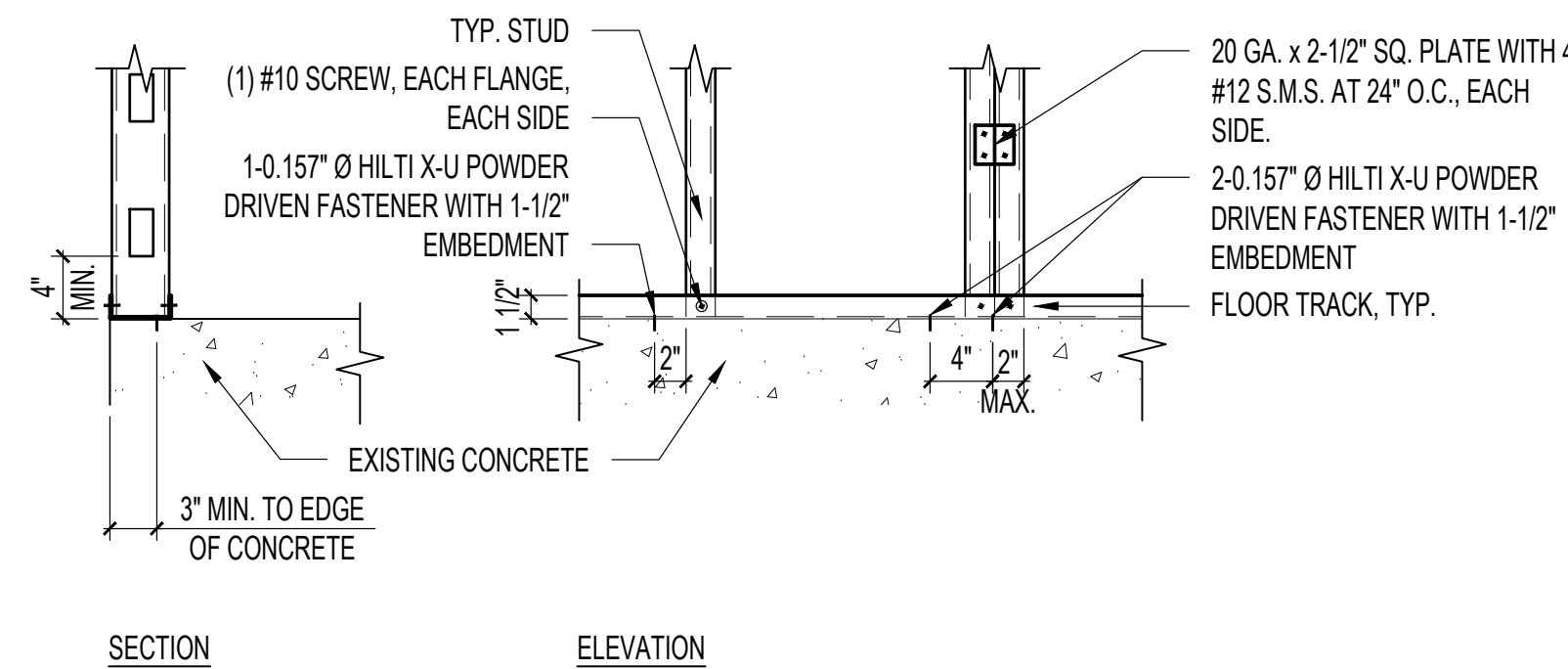
FOR ATTACHMENT OF SLOTTED SLIP TRACK TO WALL STUDS: TIGHTEN SCREWS, THEN BACK OFF 1/2 TURN



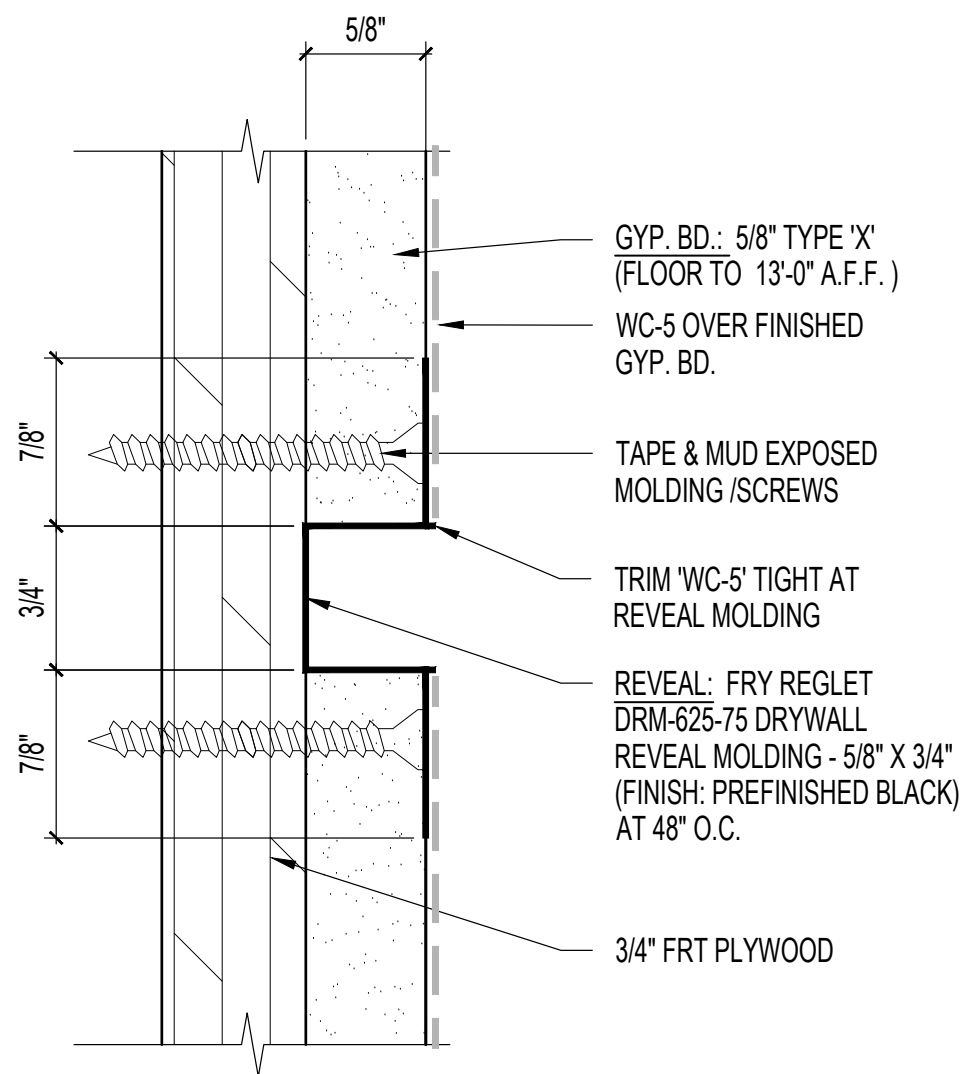
2 PARTITION DETAIL - TOP TRACK

3 PARTITION DETAIL - SLOTTED TRACK

NOTE:
3/8" Ø HILTI KWIK KB TZ W/2" EMBEDMENT AND STANDARD WASHERS MAY BE SUBSTITUTED FOR EACH HILTI X-U POWDER DRIVEN FASTENER.

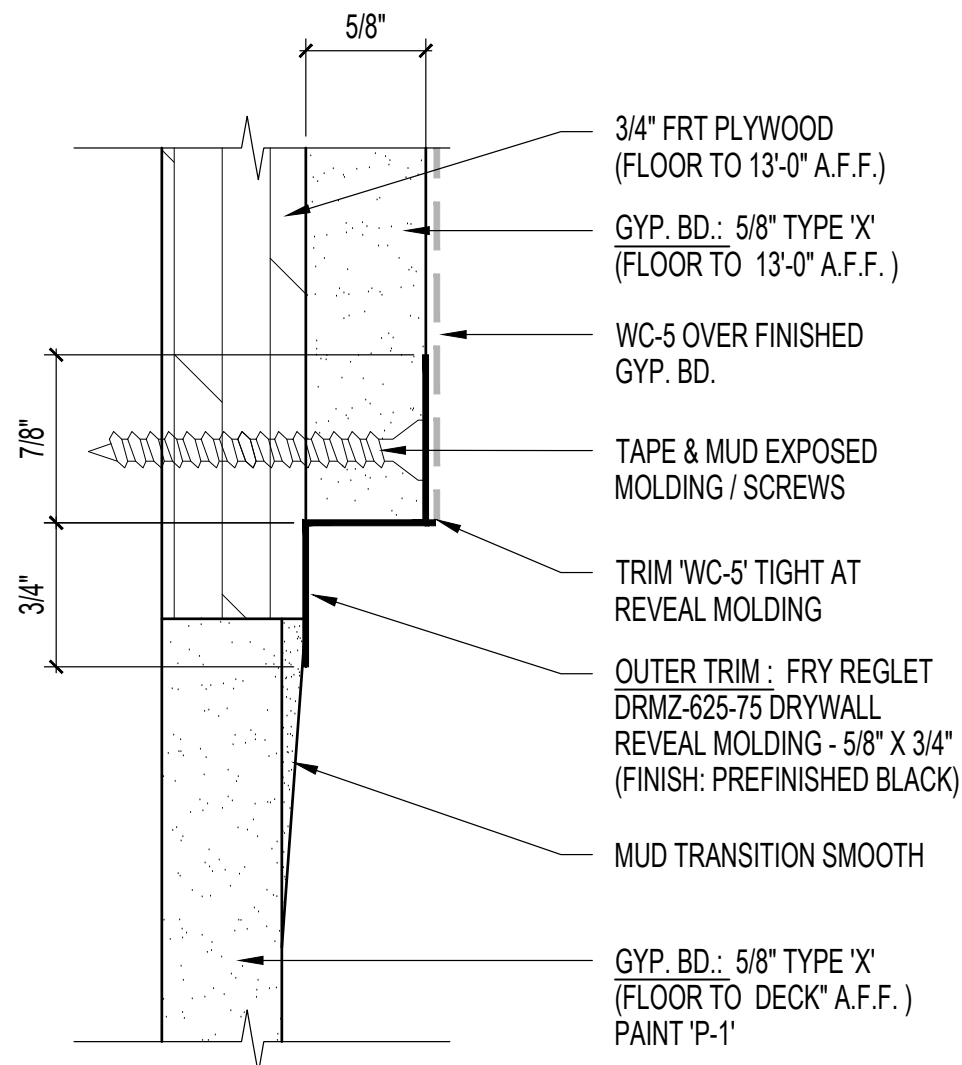


1 PARTITION DETAIL - TYPICAL BOTTOM TRACK AND AT DOOR OPENING



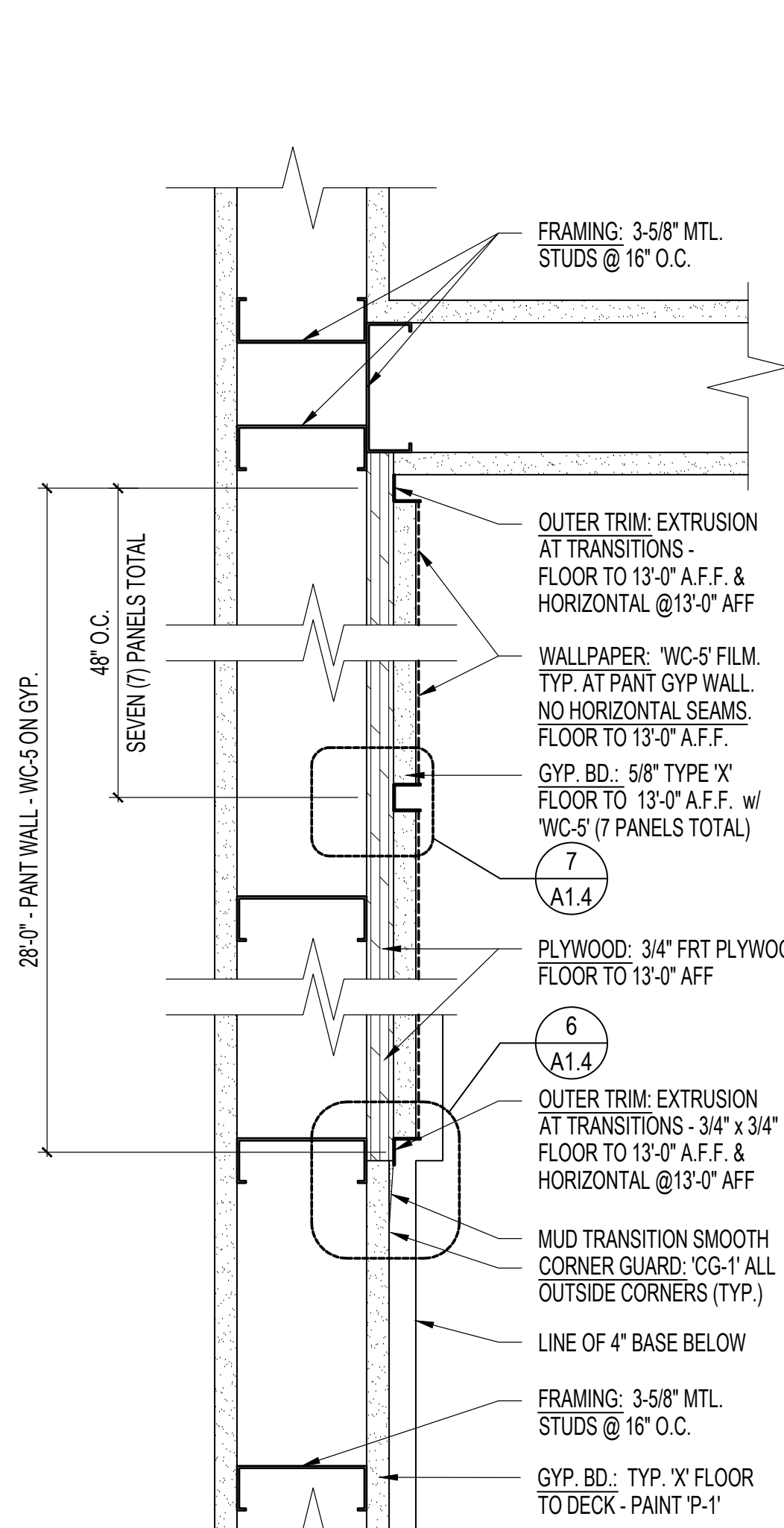
7 PANT WALL REVEAL DETAIL

SCALE
1'-0" = 1'-0"



6 PANT WALL REVEAL DETAIL

SCALE
1'-0" = 1'-0"



28'-0" - PANT WALL - WC-5 ON GYP.
SEVEN (7) PANELS TOTAL
48" O.C.

5 PANT WALL DETAIL

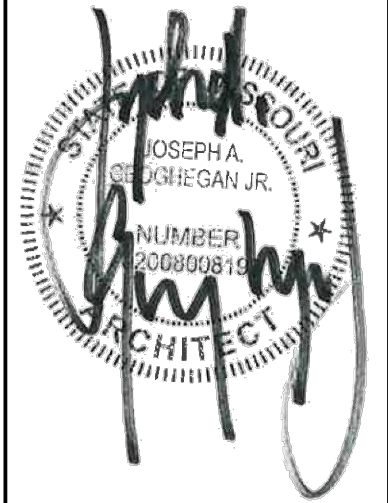
SCALE
3/4" = 1'-0"



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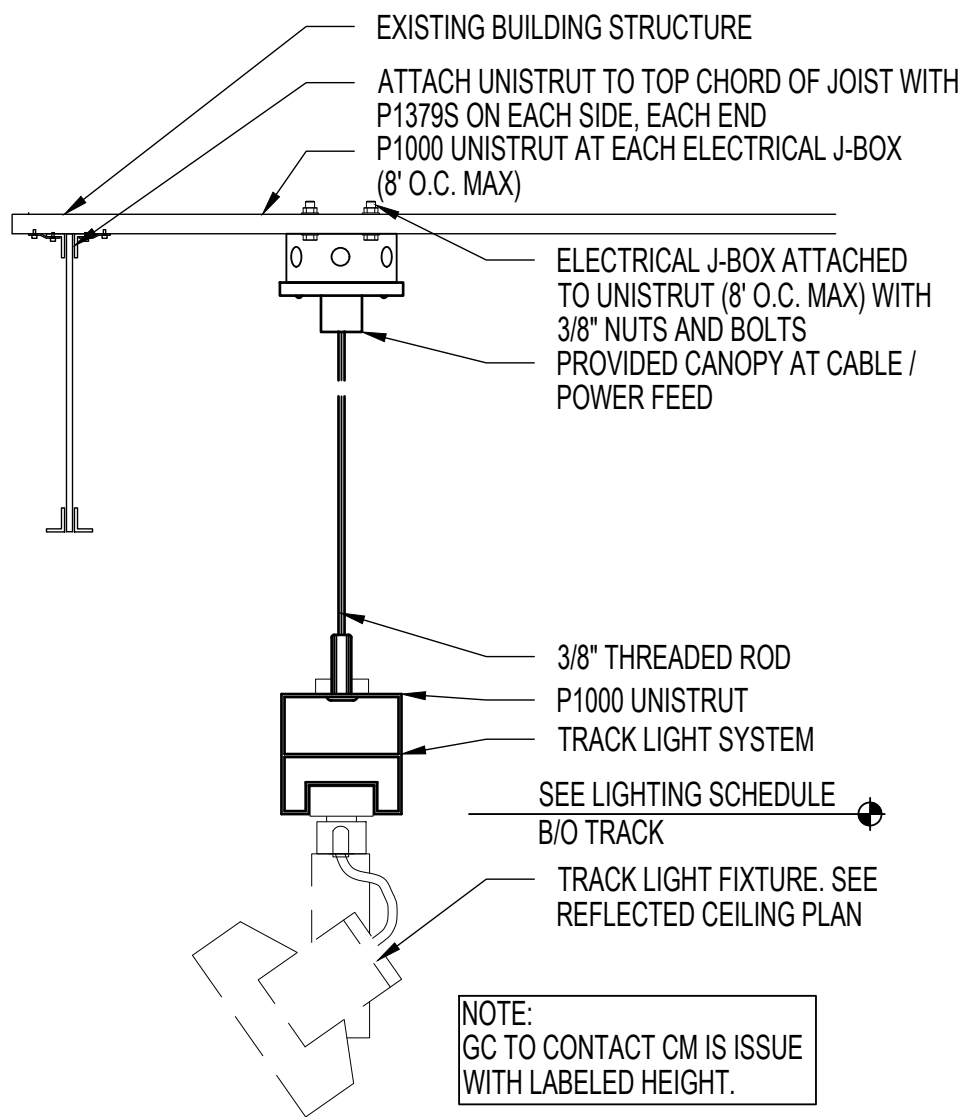
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REFLECTED CEILING
PLAN
DETAILS & NOTES

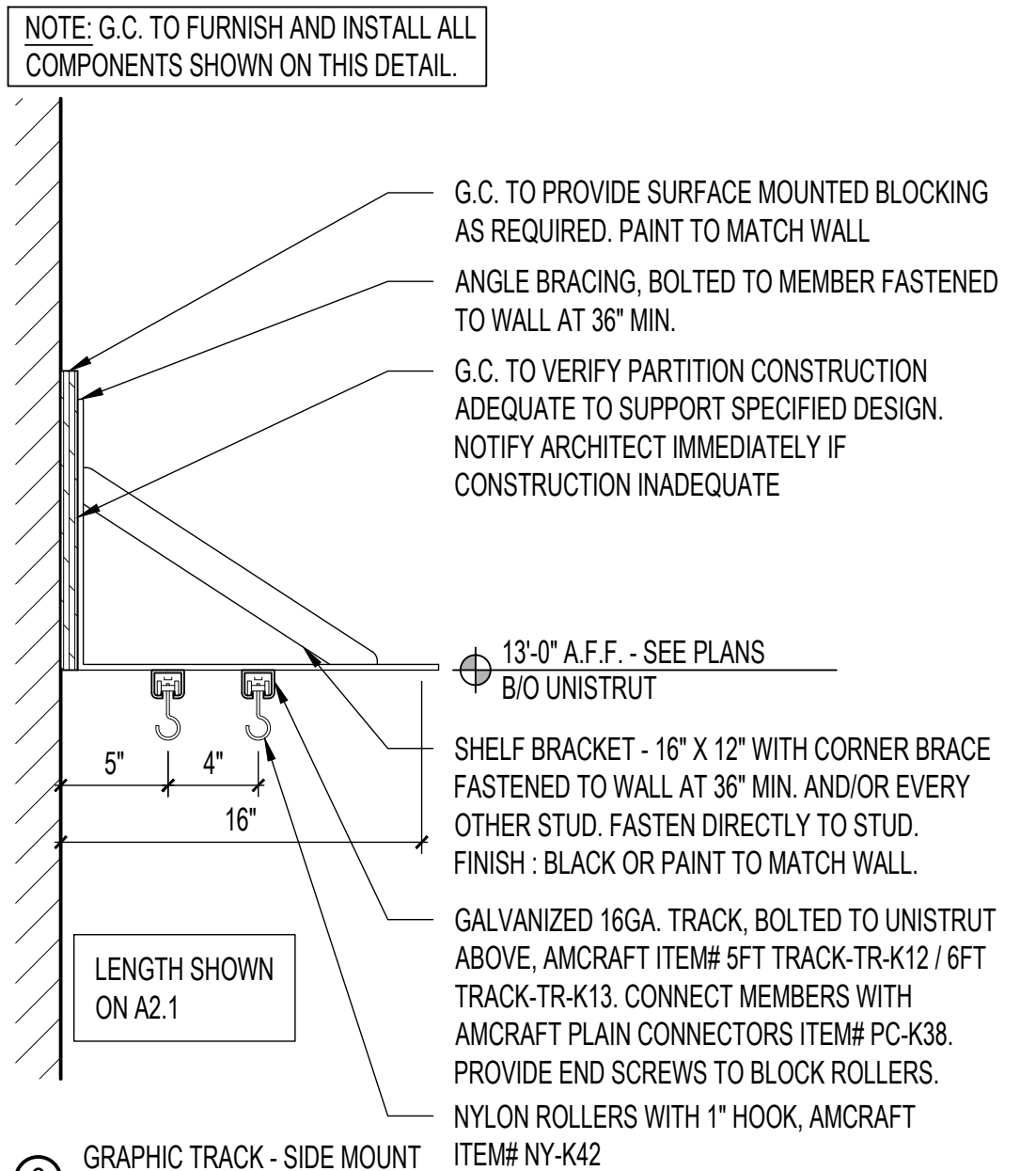
DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-2.1

<ul style="list-style-type: none">THE FIRE ALARM/FIRE WARNING SYSTEM SHALL BE CERTIFIED BY UNDERWRITER'S LABORATORY (UL) AND SHALL BE MAINTAINED IN ACCORDANCE WITH CITY STANDARDS. PROOF OF CERTIFICATION SHALL BE PROVIDED PRIOR TO APPROVAL OF OCCUPANCY. ALL DIGITAL ALARM COMMUNICATION TRANSMITTERS SHALL REPORT DISTINCTIVE SIGNALS FROM THE SITE FOR WATER FLOW (BY BUILDING), GENERAL FIRE ALARM, SUPERVISORY, AND SYSTEM TROUBLE CONDITIONS.THE LANDLORD WILL PROVIDE THE BASE BUILDING FIRE ALARM SYSTEM. THE TENANT SHALL PROVIDE WITHIN THE TENANT'S SPACE ALL REQUIRED DEVICES, CONDUIT AND WIRE AND CONNECT TO THE BASE BUILDING SYSTEM. THE DESIGN, PLAN-CHECK SUBMITTAL, SYSTEM MATERIAL AND INSTALLATION, SYSTEM REPROGRAMMING AND TESTING INCLUDING THE MODIFICATION TO THE BASE BUILDING SYSTEM AND THE WORK WITHIN TENANT'S SPACE SHALL BE PERFORMED BY A LANDLORD DESIGNATED FIRE ALARM CONTRACTOR AT THE TENANT'S EXPENSE.		<ul style="list-style-type: none">ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL O.S. - OCCUPANCY SENSOR SWITCHES AT FITTING ROOMS AND TOILET ROOMS. SEE ELECTRICAL PLANS FOR MORE INFORMATIONELECTRICAL CONTRACTOR TO VERIFY LIGHTING IS IN WORKING CONDITION WHEN JOB IS COMPLETE.NO DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE SUSPENDED OR ATTACHED TO THE FLOOR DECK AND/OR ROOF DECK. ALL SUCH ITEMS MUST BE SUSPENDED ONLY FROM JOISTS AND/OR BEAMS.BOTTOM OF SUSPENDED EMERGENCY LIGHTING TO BE MOUNTED AT SAME HEIGHT AS TRACK LIGHTINGSUPPLY AND RETURN HVAC DIFFUSERS SHOWN FOR REFERENCE / LOCATION ONLY REFER TO MECHANICAL PLANS.		<ul style="list-style-type: none">SPRINKLER NOTES SHOWN ON THIS PLAN SHOULD SERVE AS A GUIDE ONLY AND THE CONTRACTOR SHOULD NOTIFY THE TENANT REPRESENTATIVE OF ANY SUBSTANTIAL CHANGE REQUIRED IN THE DESIGN TO COMPLY WITH REQUIRED PROTECTION STANDARDS.ALL HEADS IN GYP. BD. OR ACT CEILING ARE TO BE FULLY RECESSED AND CONCEALED WITH WHITE CAPSPRIOR TO START OF WORK, CONTRACTOR SHALL SUBMIT TO THE TENANT REPRODUCIBLE COPIES OF THE FIRE SPRINKLER PLANS STAMPED WITH THE APPROVAL OF THE LOCAL FIRE OFFICIAL (AND LANDLORD'S INSURANCE UNDERWRITERS WERE REQUIRED). CONTRACTOR TO VERIFY.ALL SOFFIT AREAS ARE TO BE FULLY SPRINKLERED AS REQUIRED BY CODE AND LANDLORD.ALL WORK TO BE IN CONFORMANCE WITH LOCAL BUILDING CODES, LANDLORD'S UNDERWRITER AND ALL OTHER AGENCIES HAVING JURISDICTION AND IN STRICT ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS AND INSTRUCTIONS. G.C. TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS.SPRINKLER HEADS ARE TO BE CENTERED ON ACOUSTIC TILE AND/OR LOCATED AS SHOWN ON APPROVED SPRINKLER SHOP DRAWINGS.		<ol style="list-style-type: none">CENTER THIS TRACK LIGHTING ON THIS WALL, STRUCTURAL FRAME, OR WINDOW PANECENTER THIS LIGHT IN THE ROOM / SPACE.NEW AIR CURTAIN. SEE MECHANICAL DRAWINGS.GRAPHIC TRACK - SEE DETAIL 3/A2.1OPEN TO STRUCTURE ABOVE 13'-0" A.F.F. PAINT ALL TRUSSES, JOISTS, BEAMS, DUCTS, CONDUITS, EQUIPMENT, STRUCTURE, ETC. (TYP. THROUGHOUT UNLESS NOTED)SUSPENDED TRACK LIGHTING 6" FROM GLASS.CENTER CEILING GRID IN CENTER OF ROOMINSTALL OWNER SUPPLIED SCENT MACHINE @ 160" A.F.F.	
A	FIRE ALARM NOTES	B	GENERAL NOTES	C	SPRINKLER NOTES	-	KEY NOTES




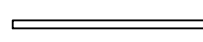


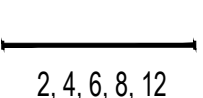



NOTE: NOTIFY OWNER/PROJECT MANAGER IMMEDIATELY IF LIGHT FIXTURES AND CEILING HEIGHTS ARE NOT ACHIEVABLE



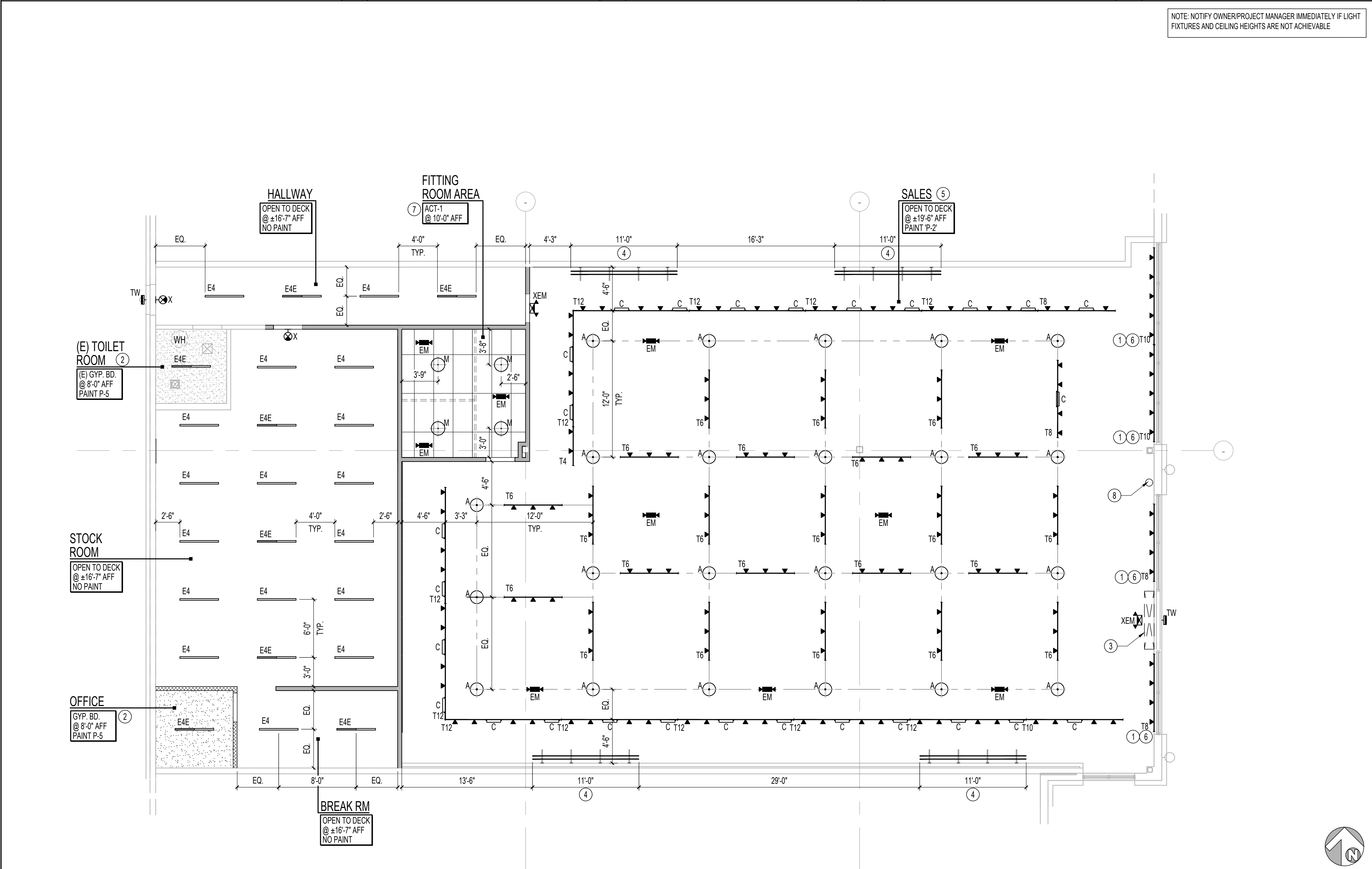
4 SUSPENDED TRACK LIGHT DETAIL SCALE N.T.S.



3 GRAPHIC TRACK DETAIL SCALE 1 1/2"=1'-0"

TAG	SYMBOL	DESCRIPTION	HEIGHT
A		HIGH BAY LIGHTING	BOTTOM @ 13'-0" A.F.F.
B		TRACK HEAD - LED SPOT	TRACK MOUNTED
C		TRACK HEAD - WALL WASHER	TRACK MOUNTED
E4		4FT LINEAR LED	12'-0" Af.F.
E4E		4 FT LINEAR LED W/ EMERGENCY	12'-0" Af.F.
K		6" RECESSED WET LOCATION RATED EMERGENCY W/ BATTERY BACK UP	RECESSED IN PORTAL
M		PENDANT LIGHT (FITTING ROOM)	BOTTOM AT 9'-0" A.F.F.
T		1 CIRCUIT TRACK (LENGTH PER PLAN).	13'-0" A.F.F. (UNO)
TW		EXTERIOR EMERGENCY LIGHT	6" - 12" ABOVE OPENING
EM		EMERGENCY LIGHT WITH BATTERY BACK UP	12'-0" (UNO)
X		EXIT SIGN	10'-0" (UNO)

2 LIGHT FIXTURE SCHEDULE



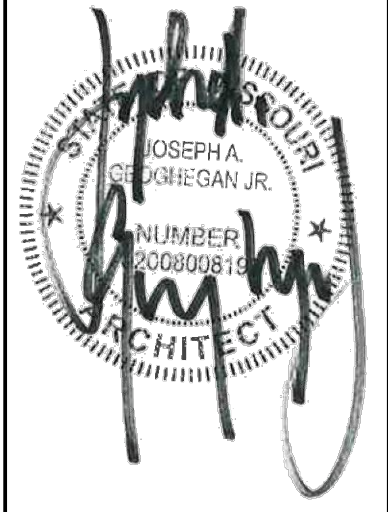
1 REFLECTED CEILING PLAN SCALE 3/16"=1'-0"

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SUMMIT WOODS
CROSSING

1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

EXTERIOR ELEVATION

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-3.1

STOREFRONT WORK:

THE STORE FACADE, GLAZING, BASE ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

NEW EXTERIOR WORK IS LIMITED TO THE FOLLOWING

- STOREFRONT SIGNAGE
- FACADE (EIFS) REPAIR

SIGN FURNISHED AND INSTALLED BY EXTERIOR SIGN CONTRACTOR. G.C. SHALL COORDINATE INSTALLATION WITH SIGN CONTRACTOR. SIGN CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT PRIOR TO FABRICATION. SIGN COMPANY TO PULL SEPARATE PERMIT FOR ALL SIGNAGE.

LETTERS SHALL BE:
TYPE: FACE-LIT
FACE OF LETTERS SHALL BE: BLACK (DAY) / WHITE (NIGHT)
RETURNS OF LETTERS SHALL BE: BLACK

LOGO SHALL BE:
TYPE: FACE-LIT
FACE OF LETTERS SHALL BE: MATTE YELLOW PMS #130
FACES, RETAINER & RETURNS SHALL BE: MATTE YELLOW PMS #130

SIGN CONTRACTOR TO PROVIDE RACEWAY @ REAR OF PARAPET TO CONCEAL WIRING

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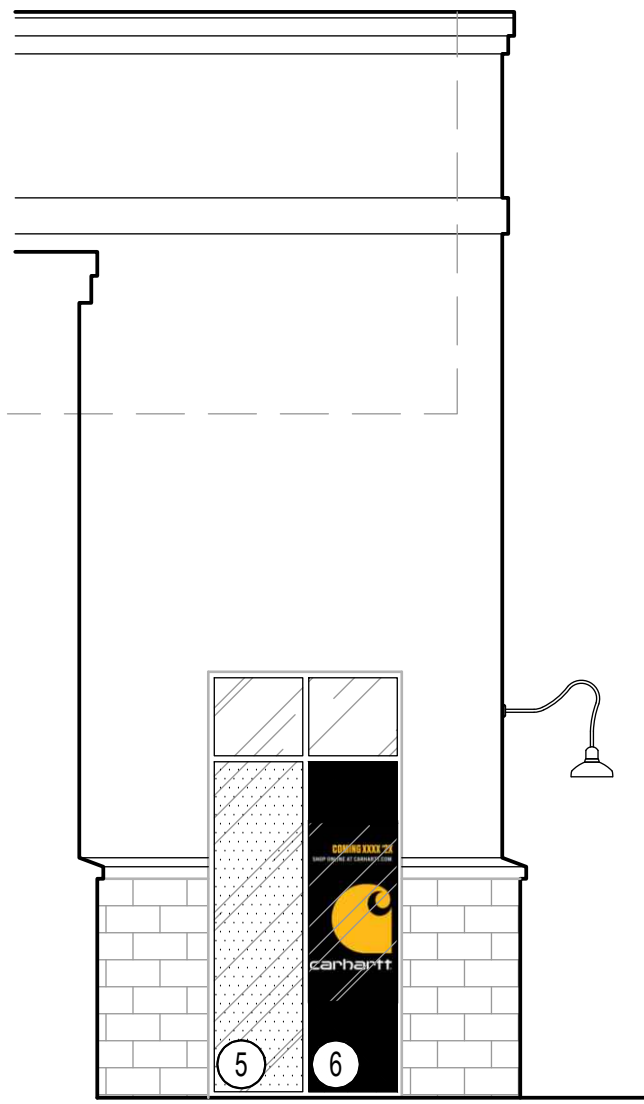
SEE ELEVATION

A SIGNAGE DETAILS

SCALE
1"=1'-0"

- EXISTING FACADE TO REMAIN. PATCH/REPAIR FACADE AS REQUIRED TO A LIKE-NEW APPEARANCE. MATCH EXISTING PAINT (COORDINATE WITH LANDLORD FOR COLOR / FINISH)
- COORDINATE WITH SIGN CONTRACTOR DRAWINGS.
- APPROXIMATE LINE OF ROOF BEHIND PARAPET.
- EXISTING STOREFRONT GLAZING SYSTEM TO REMAIN. GC SHALL CLEAN, INSPECT & NOTIFY ARCHITECT IMMEDIATELY OF ANY NECESSARY REPAIRS.
- GC TO PROVIDE & INSTALL BLACK PAPER ON STOREFRONT GLAZING AS SHOWN. REMOVE AT END OF CONSTRUCTION.
- VINYL GRAPHICS AS SHOWN. SEE SHEET F-2.1
- EXISTING LANDLORD EXTERIOR LIGHT FIXTURE(S) TO BE REMAIN. NOTIFY ARCHITECT IMMEDIATELY IF NOT OPERATIONAL.
- NEW EXTERIOR LIGHT. SEE A-2.1 & ELECTRICAL SHEETS.

NOTE:
INSTALL COMING SOON GRAPHICS
WITHIN FIRST WEEK OF CONSTRUCTION.



NOTE:
INSTALL COMING SOON GRAPHICS
WITHIN FIRST WEEK OF CONSTRUCTION.



3A STOREFRONT ELEV. - COMING SOON GRAPHICS

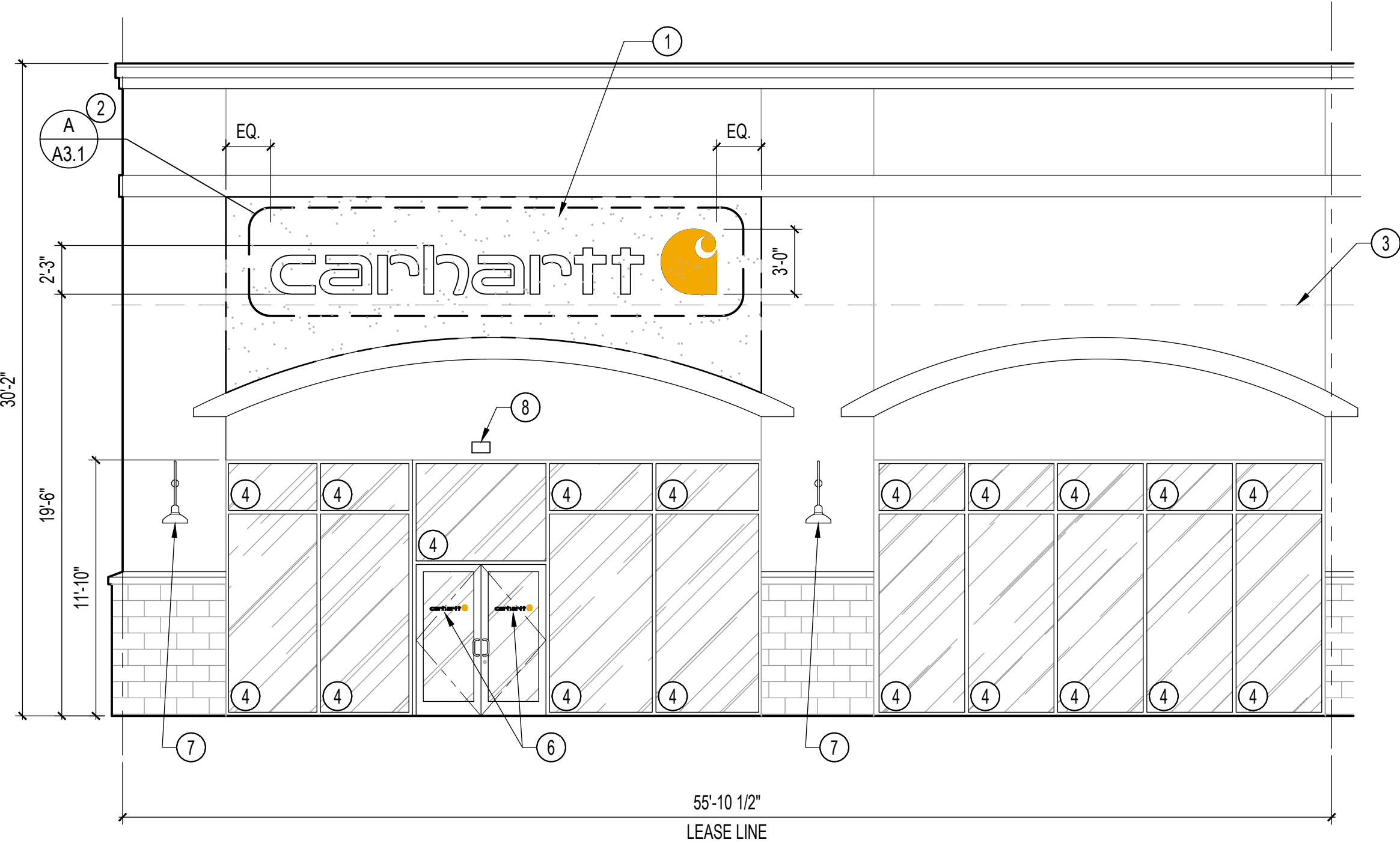
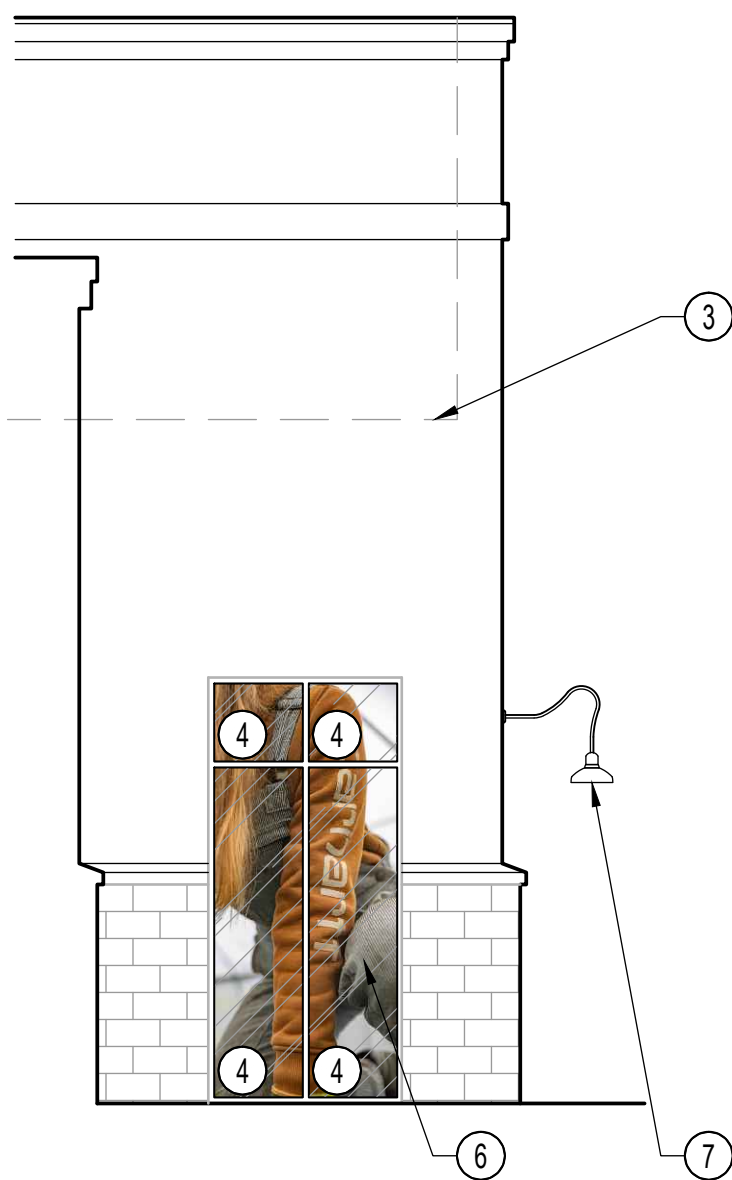
SCALE
3/16"=1'-0"

3B STOREFRONT ELEV. - COMING SOON GRAPHICS

SCALE
3/16"=1'-0"

- KEY NOTES

#



1A STOREFRONT ELEVATION

SCALE
3/16"=1'-0"

1B STOREFRONT ELEVATION

SCALE
3/16"=1'-0"

2 SIGN KEY PLAN

SCALE
3/32" = 1'-0"

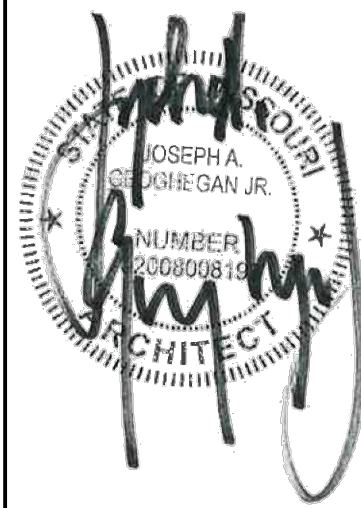
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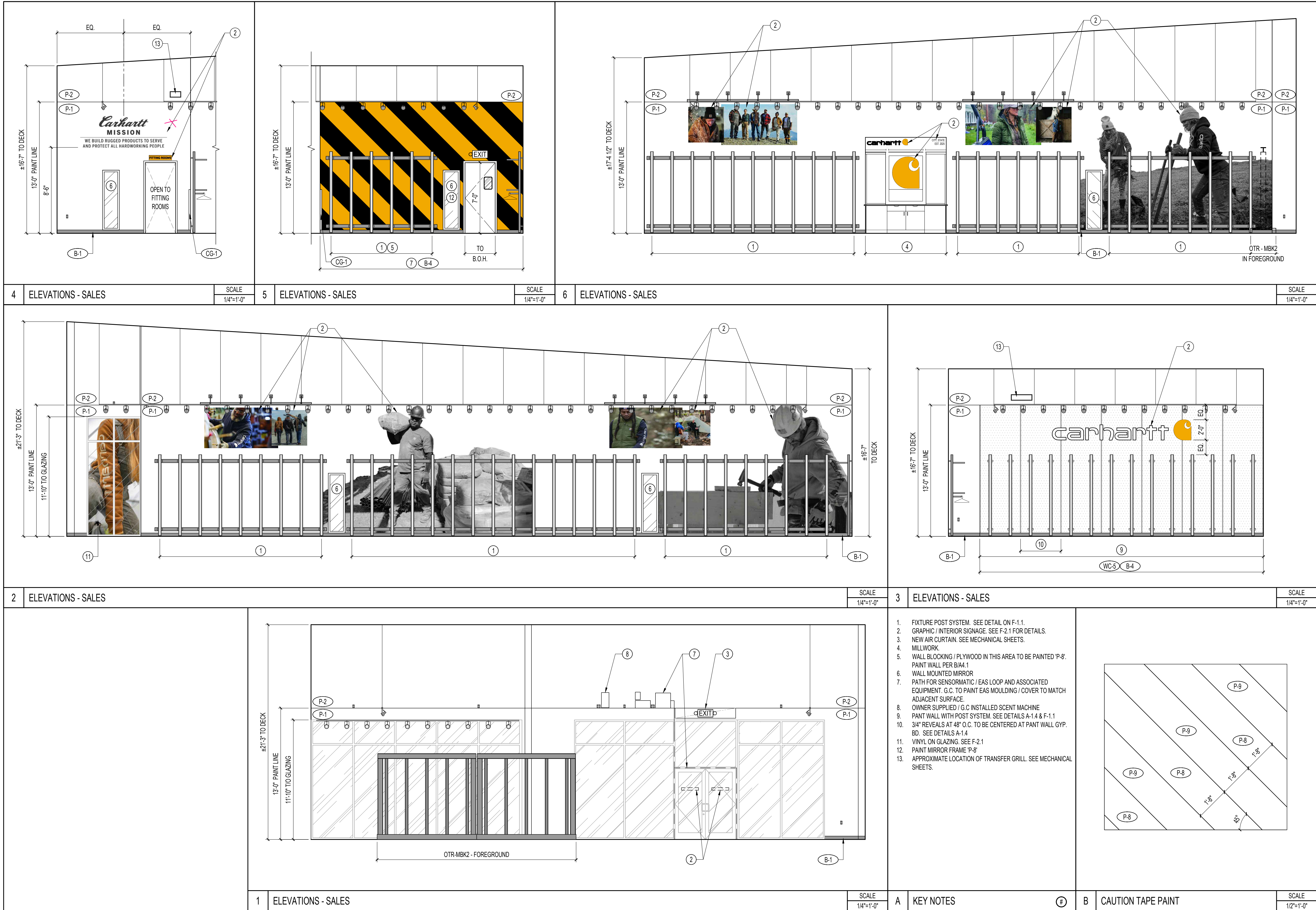
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INTERIOR ELEVATIONS

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-4.1



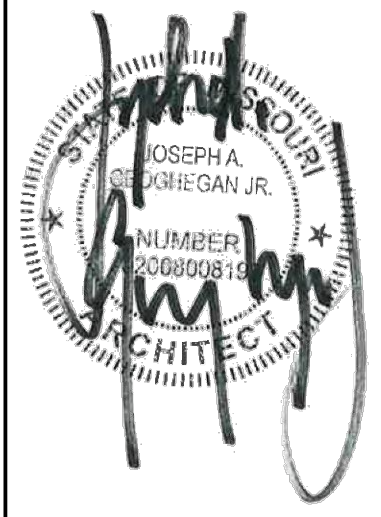
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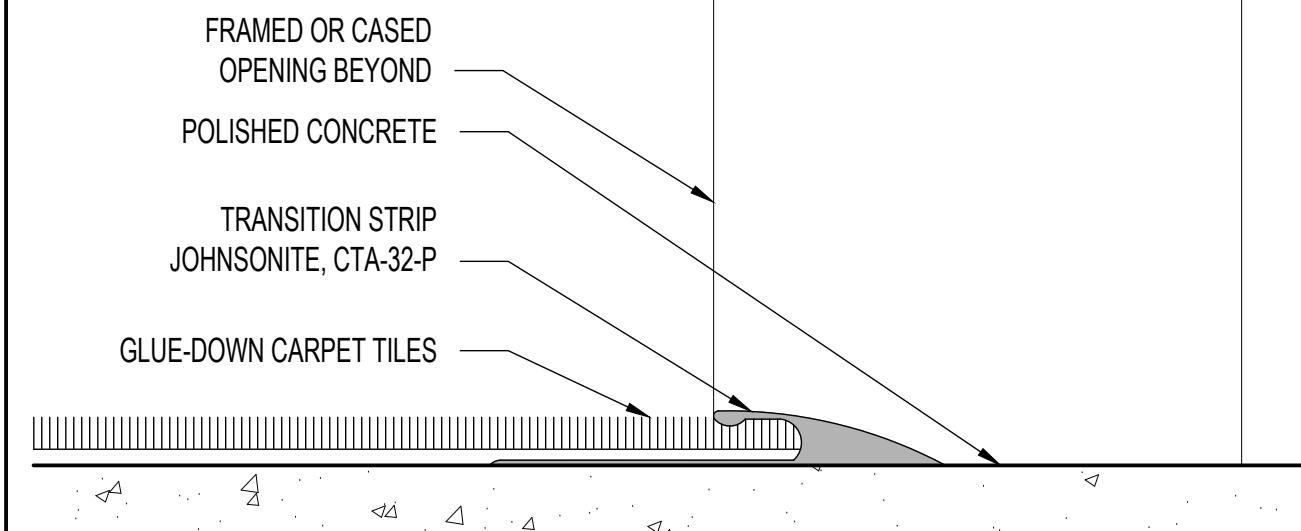
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FINISH
PLAN

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	253003
SHEET NAME	A-5.1



- EXISTING STEEL COLUMNS. PAINT "P-2" THROUGHOUT SALES AREA.
- INSTALL "WC-2" FLOOR TO 4'-0". PAINT TO MATCH ADJACENT WALL.
- INSTALL "WC-2" FLOOR TO 8'-0". PAINT TO MATCH ADJACENT WALL.
- G.C. TO INSTALL A STRIPED PATH ON THE FLOORING. G.C. TO USE RED COLOR ON CONCRETE. 8" STRIPE / 8" UNPAINTED.
- WALLS SHALL BE PAINTED TO DECK. DO NOT PAINT DECK.

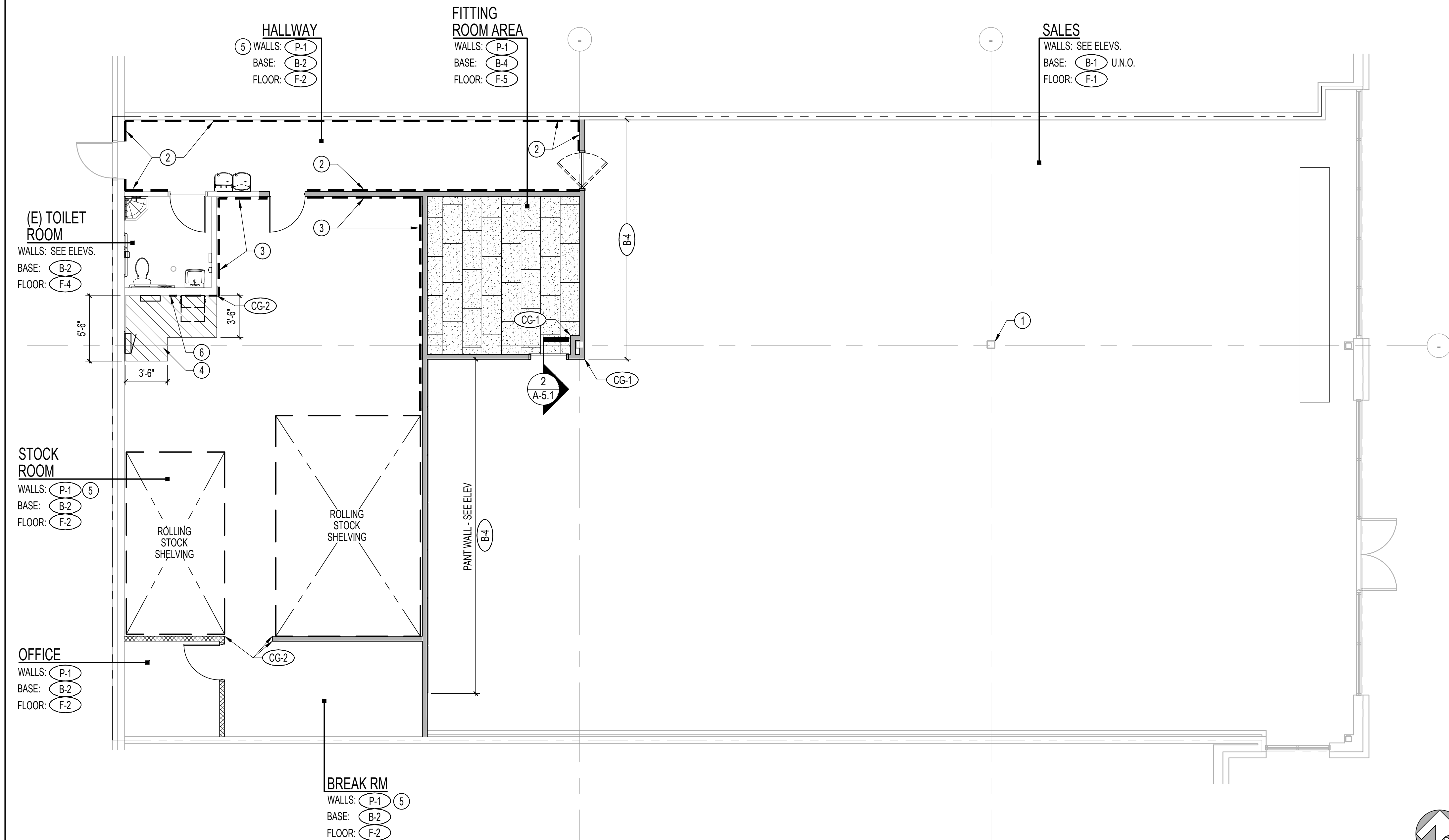
2 FLOOR TRANSITION - CONCRETE TO CARPET

SCALE
6" = 1'-0"

KEY NOTES

#

NOTE:
ALL WALLS AND SURFACES THAT ARE TO RECEIVE VINYL GRAPHICS MUST BE COMPLETE AT LEAST TEN (10) DAYS PRIOR TO THE END OF CONSTRUCTION. THIS INCLUDES PAINT TOUCH-UP.



1 FINISH PLAN



SCALE
3/16" = 1'-0"

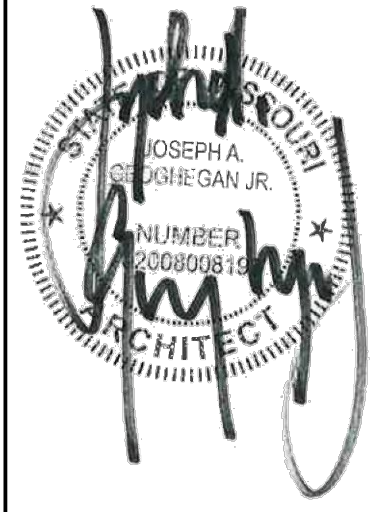
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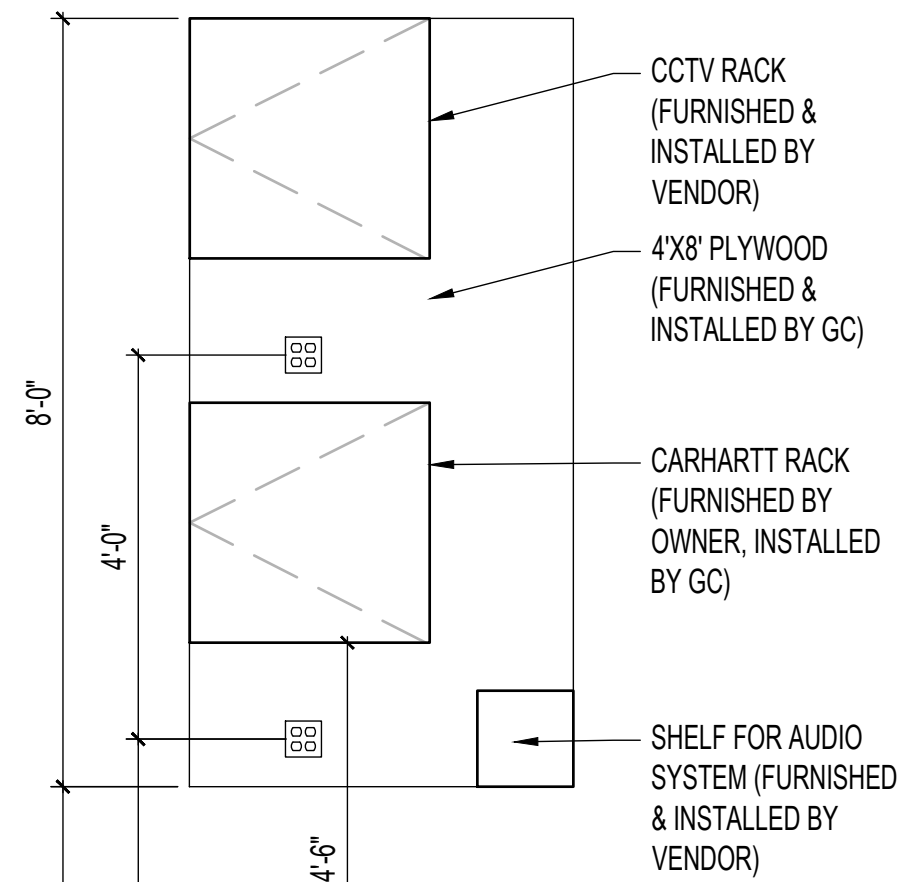
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LOW VOLTAGE PLAN

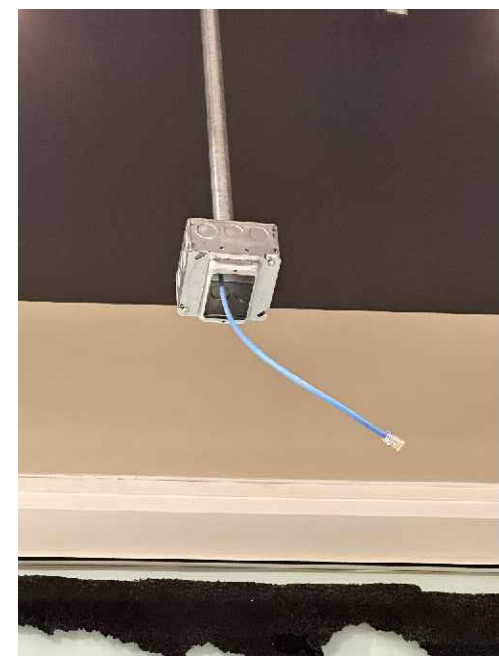
DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	A-6.1

SYMBOL	DESCRIPTION
▼	DATA OUTLET
⬇	CEILING MOUNTED DATA OUTLET
⬇	FLOOR MOUNTED DATA OUTLET

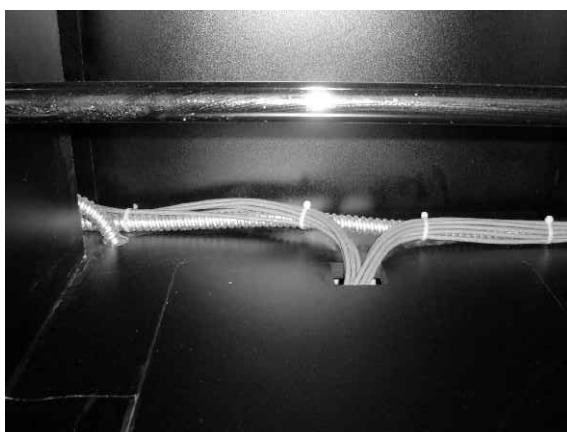
-	SYMBOL LEGEND
---	---------------



3	SERVER ELEVATION	SCALE 1/2"=1'-0"
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C DECK SUSPENDED J-BOXES



B LOWER CASHWRAP @ ACCESS PANEL

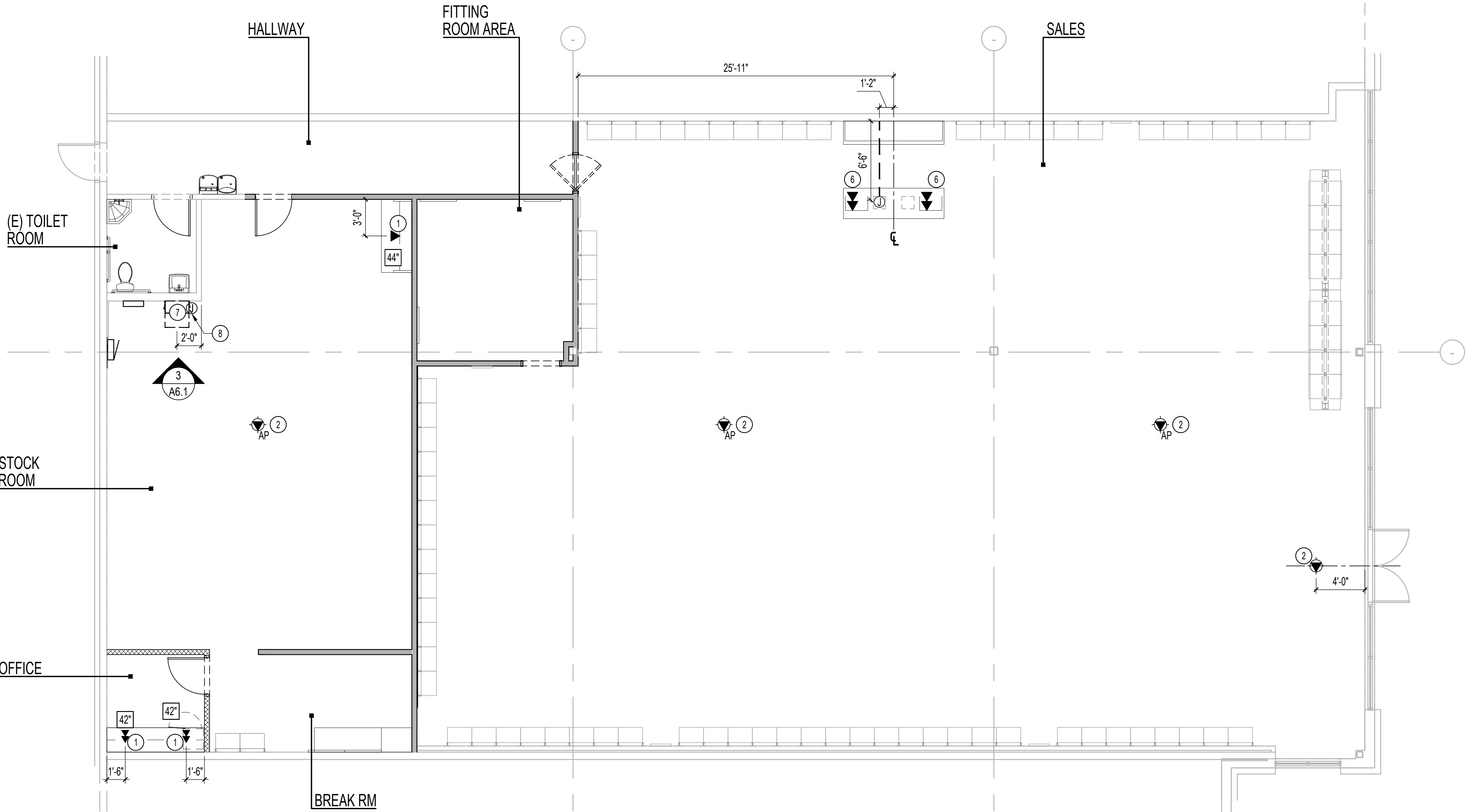


A INSIDE CASHWRAP

2	REFERENCE PHOTOS
---	------------------

- (WALL MOUNT) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO RECESSED SINGLE GANG J-BOX IN WALL. NO COVER PLATE IS NEEDED. CARHARTT'S TECH WILL EXTEND INTO THE BOXES AND TERMINATE. LEAVE SLACK SO THIS MAY BE TERMINATED. J-BOX SHALL BE INSTALLED AT HEIGHT SHOWN. J-BOX MAY BE SURFACE MOUNTED IF ON STEEL COLUMN OR MASONRY WALL. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF SALES / STOCKROOM. LABEL BOTH ENDS OF THE CABLE.
- (METAL DECK MOUNT) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO J-BOX SUSPENDED FROM THE DECK. J-BOX SHALL QUAD J-BOX WITH SINGLE GANG DEVICE RING AND SHALL BE SUSPENDED AT 11'-6" A.F.F. WITH CONDUIT TO DECK. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF STOCKROOM OR SALES AREA BUT IS REQUIRED IN THE WALLS FOR THE VERTICAL PORTION OF THE RUN IN THE SALES AREA. SEE 2/A6. LABEL BOTH ENDS OF THE CABLE.
- NOT USED (CONCRETE DECK MOUNT / WOOD JOIST AND DECK MOUNT) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO J-BOX SUSPENDED FROM THE DECK. J-BOX SHALL QUAD J-BOX WITH SINGLE GANG DEVICE RING AND SHALL BE SUSPENDED AT 11'-6" A.F.F. WITH CONDUIT TO DECK. REVIEW LOCATIONS WITH REQUIRED LOW VOLTAGE WIRING SUB-CONTRACTOR PRIOR TO INSTALLING CONDUIT. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF STOCKROOM BUT IS REQUIRED AT CEILING / DECK OF SALES AREA. LABEL BOTH ENDS OF THE CABLE.
- NOT USED (CEILING MOUNT) ROUTE (1) CAT 6 CABLE FROM PATCH PANEL IN DATA RACK TO J-BOX ABOVE CEILING. LOOP CABLE ABOVE CEILING USING PROPER SUPPORTS. J-BOX TO BE MOUNTED WITHIN 18" ABOVE CEILING AND 24" OF DEVICE LOCATION SHOWN. PROVIDE 10' OF SERVICE LOOP ON SECONDARY END. CONDUIT IS NOT REQUIRED AT CEILING / DECK OF STOCKROOM. LABEL BOTH ENDS OF THE CABLE.
- NOT USED (EXTERIOR DOOR) ROUTE (1) CAT 6 CABLE IN 3/4" CONDUIT FROM PATCH PANEL IN DATA RACK TO WATERPROOF DUAL GANG J-BOX. J-BOX SHALL BE INSTALLED AT HEIGHT SHOWN. J-BOX MUST BE RECESSED UNLESS INSTALLED IF ON MASONRY WALL. LABEL BOTH ENDS OF THE CABLE.
- (CASHWRAP) ROUTE SEVERAL CAT 6 CABLES IN CONDUIT FROM PATCH PANEL IN DATA RACK TO J-BOX IN CABINET. EXTEND CABLES TO THE CASHWRAP AND LEAVE LOOPED WITHIN THE CASHWRAP AT LOCATION OF LOCATION OF EMPTY J-BOX. PROVIDE SLACK SO THEY CAN BE EXTENDED TO THE ENDS OF THE CASHWRAP. LABEL BOTH ENDS OF THE CABLE. CARHARTT'S TECH WILL EXTEND INTO THE BOXES AND TERMINATE. INSTALL SINGLE GANG J-BOX FOR EACH POS AT INSIDE REAR SURFACE OF CABINET. SEE 2/A6.1. NUMBER OF CABLES ARE REPRESENTED ON THE PLAN WITH A TRIANGLE SYMBOL. USE INDUSTRY STANDARD FOR CONDUIT SIZE BASED ON THE QUANTITY OF CABLES SHOWN.
- GC TO INSTALL OWNER SUPPLIED DATA RACK ON WALL AT THE HEIGHTS / LOCATIONS SHOWN ON 3/A6.1. ALL CABLES SHOULD BE LEFT NEXT TO THE RACK WITH PLENTY OF SLACK. THE CARHARTT TECH WILL EXTEND INTO THE RACK AND TERMINATE ON THE PATCH PANELS.
- GC TO ROUTE TWO (2) CAT6 CABLES IN EXISTING LANDLORD CONDUIT FROM BUILDING TELCO ROOM / MDF TO TENENT'S DATA RACK AREA / IDF. ASSUME 300' FOR PRICING.

-	KEY NOTES - LOW VOLTAGE	#
---	-------------------------	---



1	LOW VOLTAGE WIRING PLAN
---	-------------------------



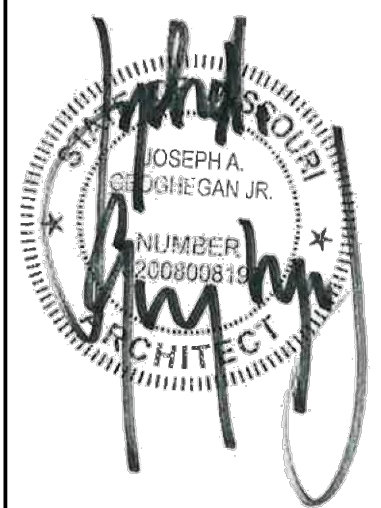
SCALE 3/16"=1'-0"



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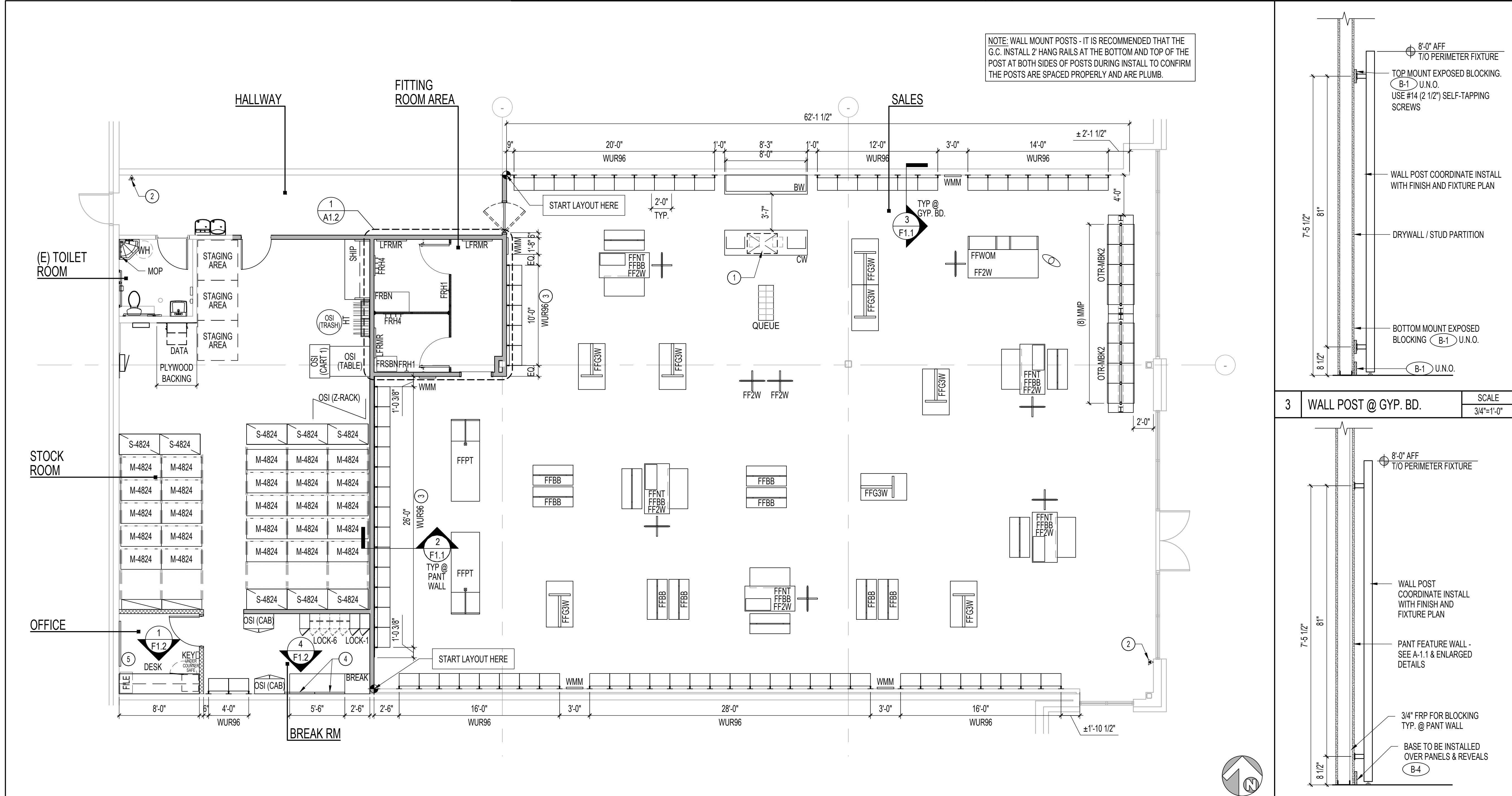
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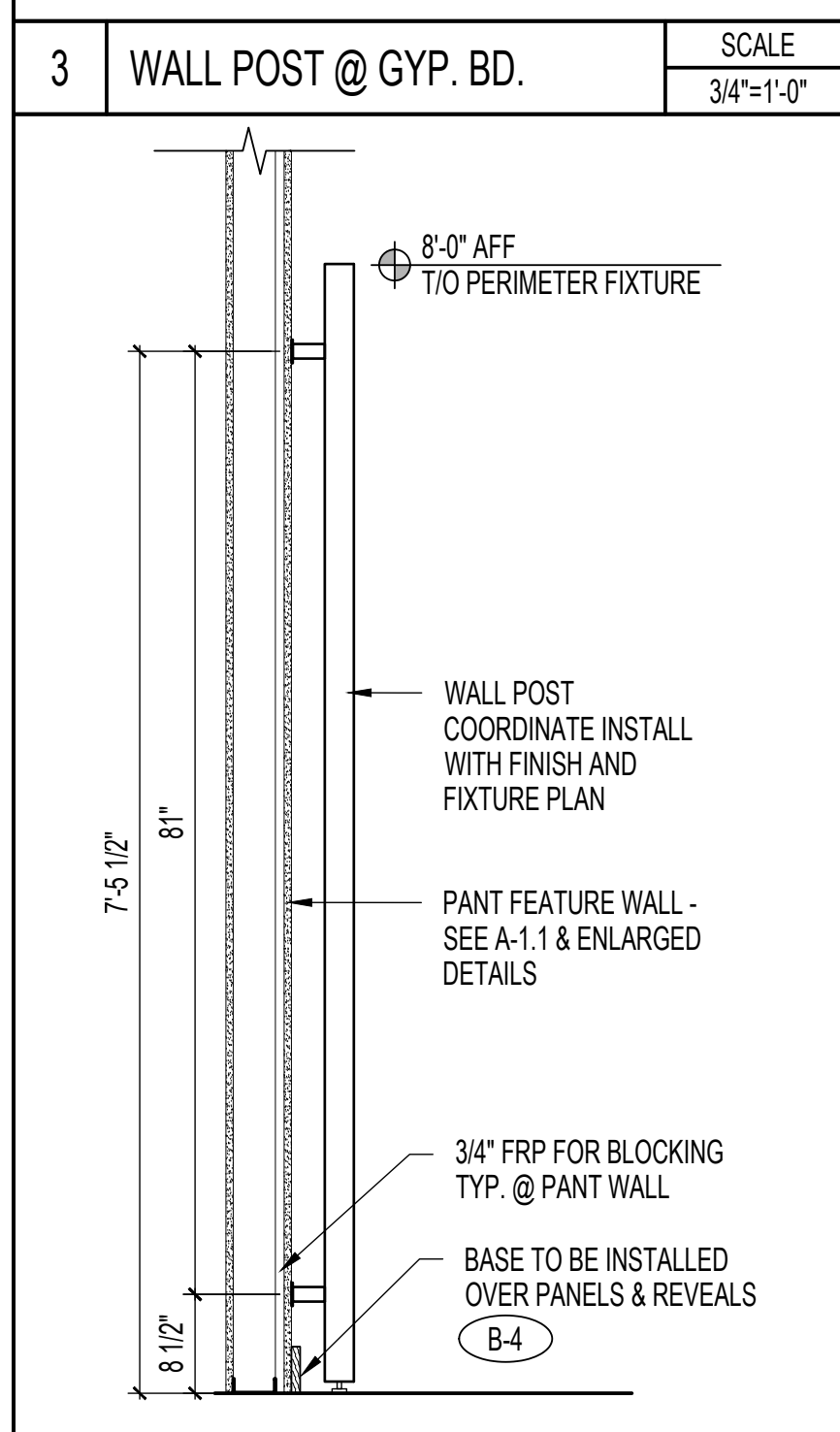
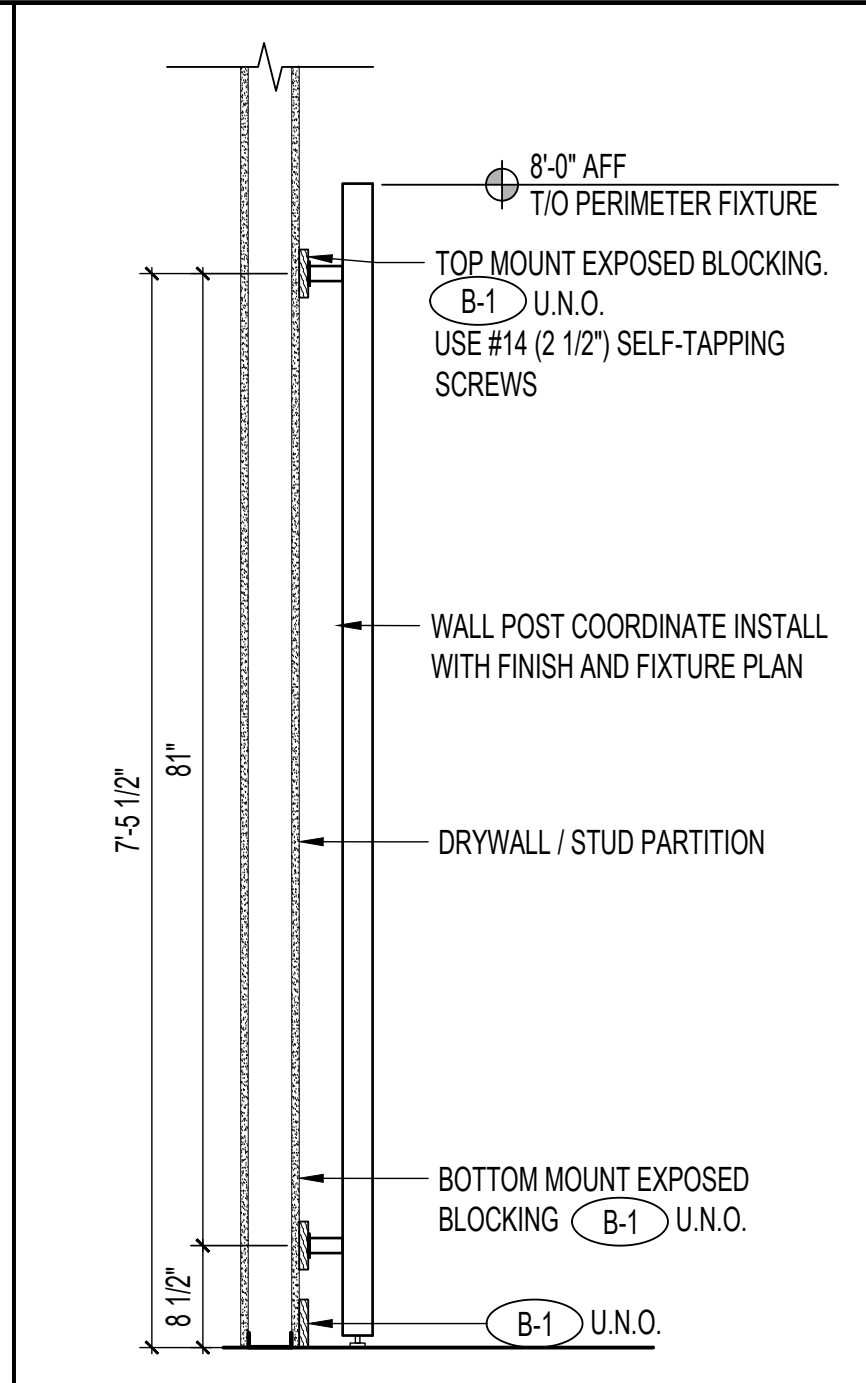
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1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081
FIXTURE PLAN,
SCHEDULE & NOTES

DRAWN BY	SLS
CHECKED BY	SL
JOB NUMBER	25303
SHEET NAME	F-1.1

<div>1. THIS PORTION OF CASHWRAP MEETS ACCESSIBILITY GUIDELINES AND IS 36" WIDE BY 24" DEEP, AND COUNTER TOP AT 34" AFF.</div> <div>2. PROPOSED FIRE EXTINGUISHER LOCATION - CONFIRM WITH FIRE MARSHAL</div> <div>3. REMOVE WOOD TRIM FROM THE SIDES OF THESE POSTS</div> <div>4. INSTALL OWNER SUPPLIED CORK BOARD VERTICALLY, WITH BOTTOM AT 42" A.F.F.</div> <div>5. INSTALL OWNER SUPPLIED DRY-ERASE BOARD VERTICALLY, WITH BOTTOM AT 52" A.F.F.</div>		#	MARK	ITEM DESCRIPTION	NOT USED	EXIST	CONTRACTOR		VENDOR		OWNER		MARK	FIXTURE ITEM DESCRIPTION	NOT USED	EXIST.	CONTRACTOR		G+B*		VERMONT STORE FIXTURES		OWNER			
							FURN.	INST.	FURN.	INST.	FURN.	INST.					FURN.	INST.	FURN.	INST.	FURN.	INST.	FURN.	INST.		
			BREAK	BREAK COUNTER - SEE F1.2			●	●							BW	BACKWRAP				●	●					
			DATA	DATA CABINET				●					●		CW	CASHWRAP				●	●					
			DESK	MANAGER'S DESK - SEE F1.2			●	●							CMP96	POST - CEILING MOUNT (96" CEILING)	●									
			HT	HANGER MANAGEMENT SECTIONS WITH 12 H-BARS IN EACH SECTION				●					●		CMP144	POST - CEILING MOUNT (144" CEILING)	●									
			LOCK-1	LOCKERS - ULINE : 12" X 18" X 72"				●					●		FF2W	T-STAND				●	●					
			LOCK-6	LOCKERS - ULINE: 72" X 18" X 72"				●					●		FFBB	BALLET BAR				●	●					
			M-XXXX	MOBILE STOCK SHELVING									●	●	FFC30	CUBE FIXTURE - 30" SQUARE	●									
			MOP	MOP & BROOM RACK ABOVE MOP SINK			●						●		FFG3W	GONDOLA - 3 WAY				●	●					
			SHIP	PACKING STATION			●						●		FFNT	NESTING TABLE SET WITH RISER				●	●					
			S-XXXX	STATIONARY STOCK SHELVING									●	●	FFPT	PANT TABLE				●	●					
			CAB	STORAGE & CABINET WITH DOORS. SHORTER UNIT IN TOILET ROOM.			●						●		FFWOM	WOMEN'S FIXTURE DISPLAY				●	●					
			OSI	OWNER SUPPLIES EQUIP.			●						●		FRH1	FITTING ROOM HOOK - 1 - SEE A1.2 FOR SPEC			●	●						
			FILE	FILE CABINET (UNDER-COUNTER)			●						●		FRH4	FITTING ROOM HOOKS - 4 SEE A1.2 FOR SPEC			●	●						
KEY	KEY BOX			●						●		FRMR	FITTING ROOM MIRROR				●	●								
B	#	STOCKROOM FIXTURE SCHEDULE											LFRMR	ILLUMINATED WALL MOUNTED MIRROR SEE A-1.2 FOR SPEC.			●	●								
													MMP	METAL MESH PANEL				●	●							
													OTR-MBK	POST SYSTEM ON BASE FOR CONCRETE	●				●	●						
													OTR-MBK2	POST SYSTEM ON BASE FOR CONCRETE				●	●							
													OTR-K	POST SYSTEM ON BASE	●											
													QUEUE	QUEUE SYSTEM					●	●						
													WMM	WALL MOUNT MIRROR					●	●						
													WUR96	POST - WALL MOUNT					●	●						
															• ASSEMBLY REQUIRED FOR ALL G+ B FIXTURES											



1	FIXTURE PLAN	SCALE 3/16" = 1'-0"
2	WALL POST @ PANT WALL	SCALE 3/4" = 1'-0"



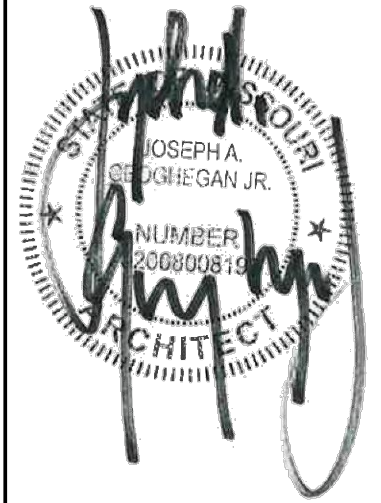
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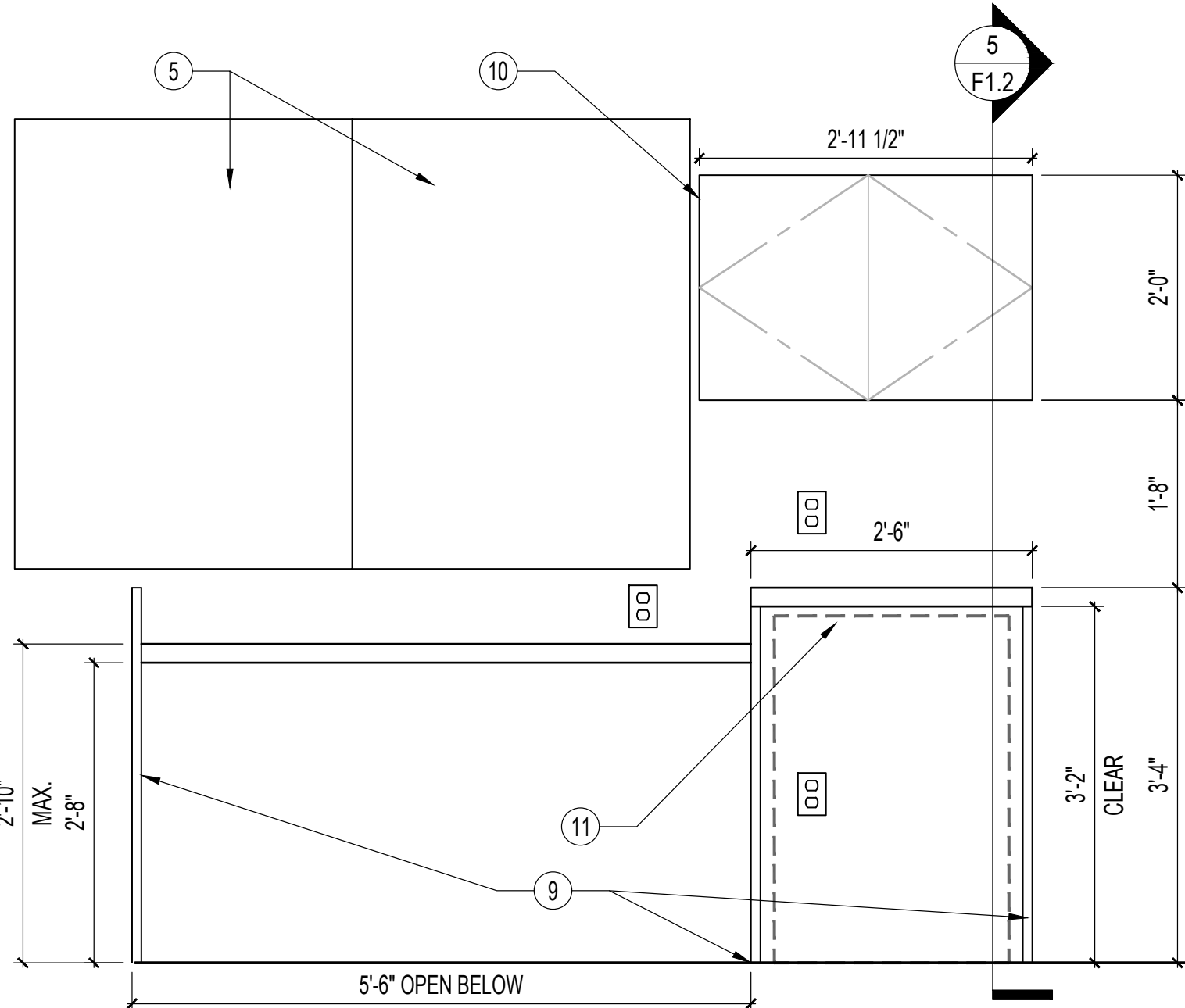
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FIXTURE DETAILS

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CHECKED BY
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JOB NUMBER
25303
SHEET NAME
F-1.2

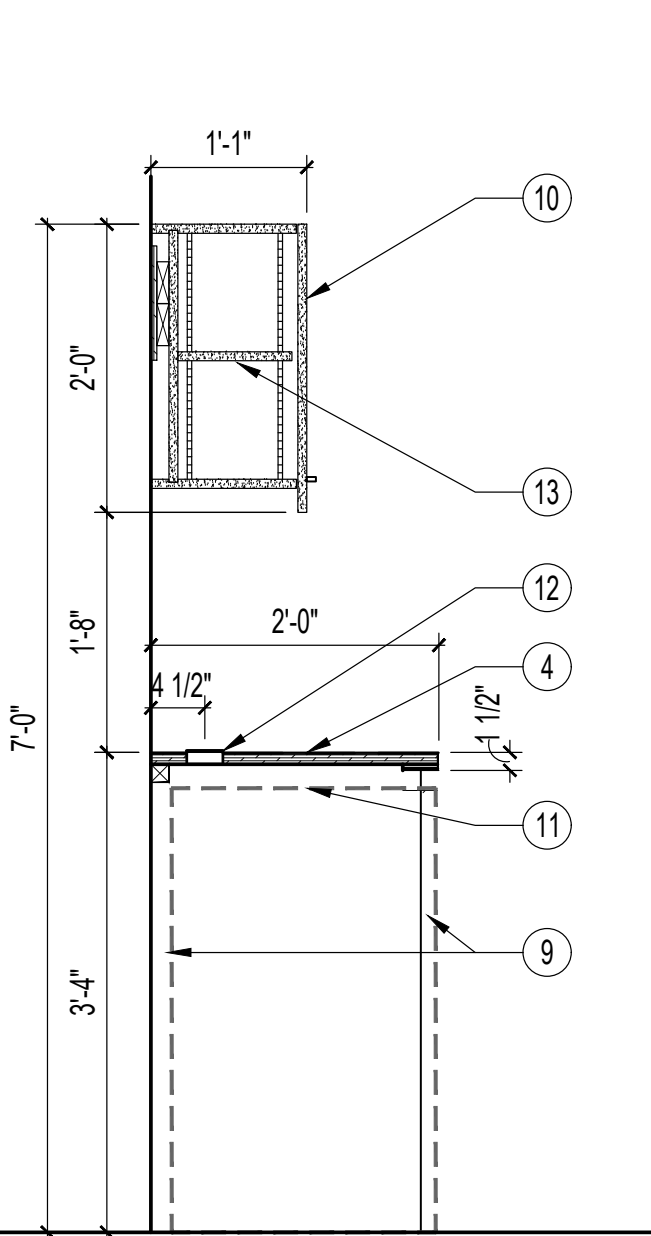
- 3/4" THICK FIRE RATED PLYWOOD MOUNTING BOARD (PAINT TO MATCH WALL)
- MANAGERS AREA
 - STANDARDS: CAPITOL HARDWARE - 2000-00649 - C-LINE CHROME SLOTTED STANDARDS
 - BRACKETS: CAPITOL HARDWARE - 2001-01403 - BRACKET - 14" WITH THUMB SCREW - ZINC
 - SHELF REST: CAPITOL HARDWARE - 2075-00001 - CENTER - FOR C-LINE BRACKETS - ZINC
 - 14" DEEP SHELF - WHITE MELAMINE
- HANGBAR AREA:
 - STANDARDS: CAPITOL HARDWARE - 2000-00649 - C-LINE CHROME SLOTTED STANDARDS
 - BRACKETS: CAPITOL HARDWARE - 2001-01603 - BRACKET - 16" WITH THUMB SCREW, ZINC
 - HANGRAIL ADAPTER: CAPITOL HARDWARE - 2039-30078 - ADAPTER WITH SPRING CLAMP FOR 1" DIAMETER ROUND TUBE - CHROME
 - HANGRAIL: CAPITOL HARDWARE - 646-30847 - 1" DIAMETER ROUND TUBE
 - END CAP: CAPITOL HARDWARE - 652-30047 - END CAP FOR 1" DIAMETER ROUND TUBE - CHROME
- PLASTIC LAMINATE COUNTERTOP - WHITE
- INSTALL OWNER SUPPLIED CORK BOARD HORIZONTALLY, WITH BOTTOM AT 42" A.F.F.
- NOT USED
- ALL POWER & DATA @ DESK SHALL BE MOUNTED @ ~38"
- 2'-6" d. WHITE LAMINATED COUNTERTOP W/MATCH SUPPORTS.
- LAMINATE SUPPORTS AT EDGES OF COUNTERTOP
- PLASTIC LAMINATE FINISH. SHELF UNIT HUNG ON CONTINUOUS WOOD CLEARS AT WALL. REINFORCE W/ PLYWOOD BACKING AT WALL & BLOCKING IN WALL-PLASTIC LAMINATE
- OUTLINE OF UNDER COUNTER REFRIGERATOR (20" w. x 35" h. x22" d)
- LOCATION OF 3" DIA. GROMMET W/ COVER (2 TYP.)
- ADJUSTABLE SHELF ON RECESSED PILASTER STANDARDS
- LOCATION OF VERTICAL FILING CABINET (15" W X 25" D X 29" H)
- LOCATION OF SAFE (20" W X 20" D X 20" H)

7 ELEVATION KEY NOTES



4 BREAK COUNTER ELEVATION

SCALE
3/4"=1'-0"



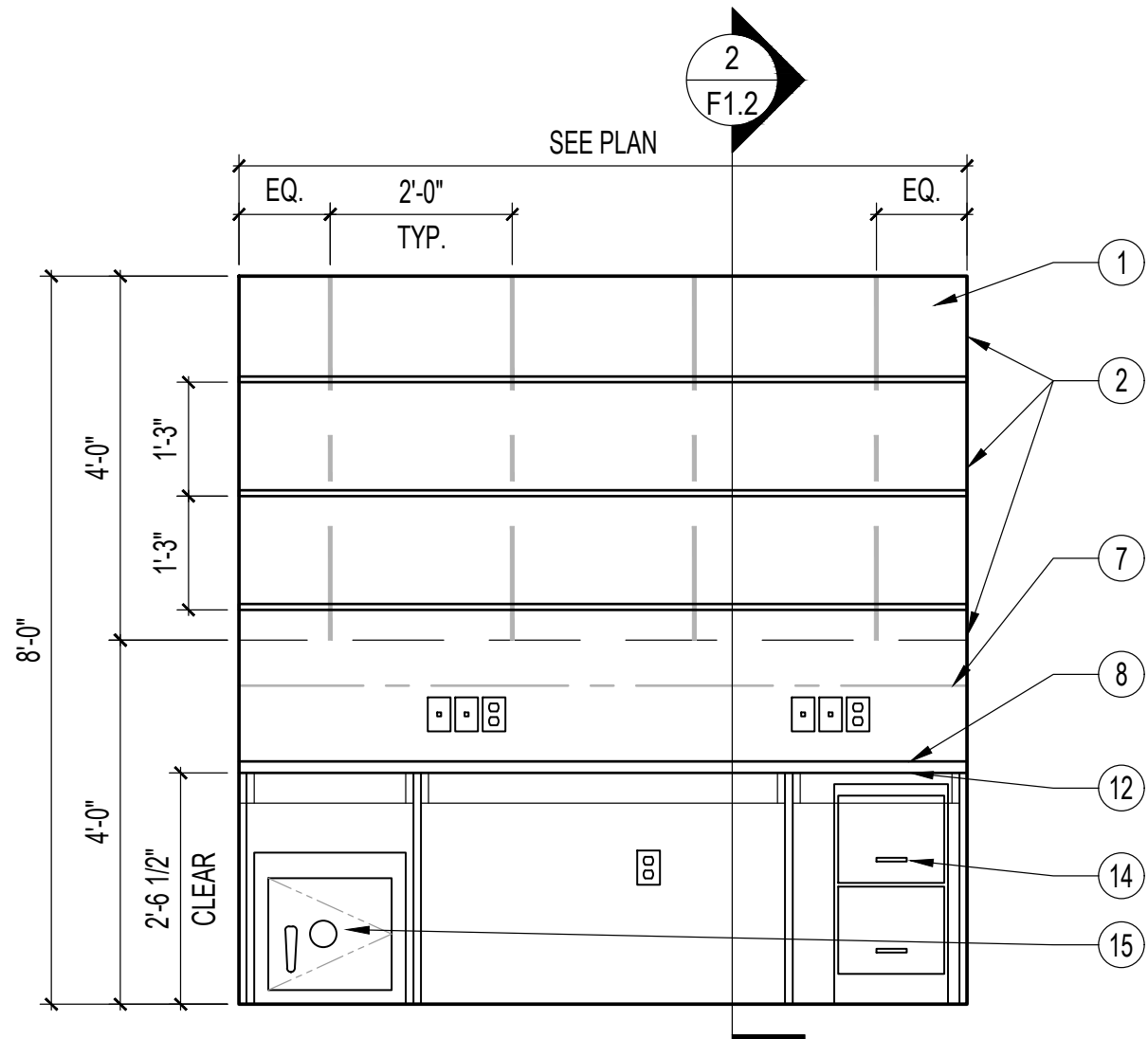
5 BREAK COUNTER SECTION

SCALE
3/4"=1'-0"



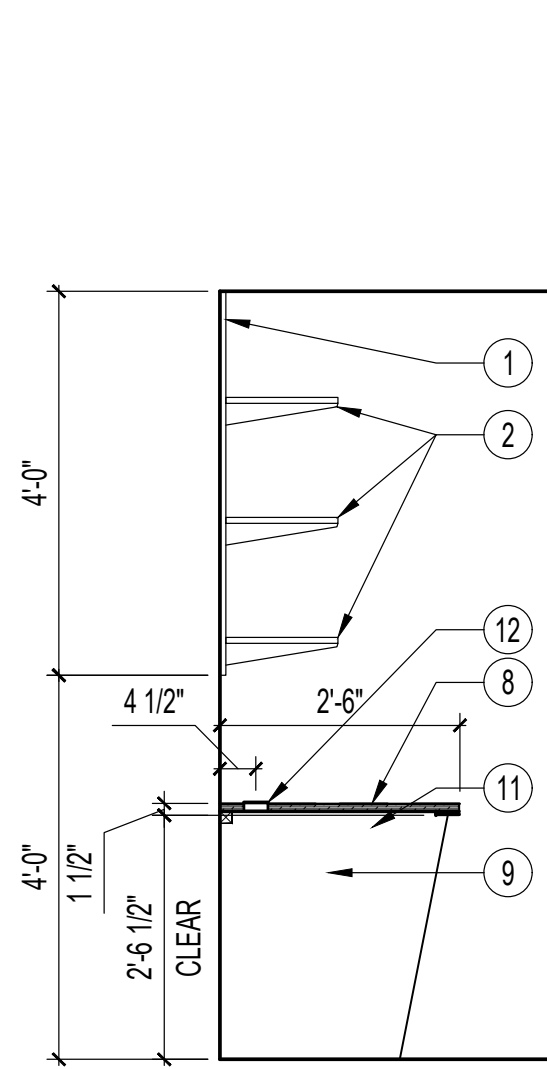
NOTE:
BREAK ROOM AND MANAGER'S DESK
COUNTERTOPS MAY BE SOURCED FROM
PRE-MANUFACTURED / IN-STOCK
COUNTERTOPS IN A NEUTRAL COLOR AT
LOCAL HOME IMPROVEMENT CENTER.

6 BREAK COUNTER - REFERENCE PHOTO



1 MANAGER'S DESK ELEVATION

SCALE
1/2"=1'-0"



2 MANAGER'S DESK SECTION

SCALE
1/2"=1'-0"



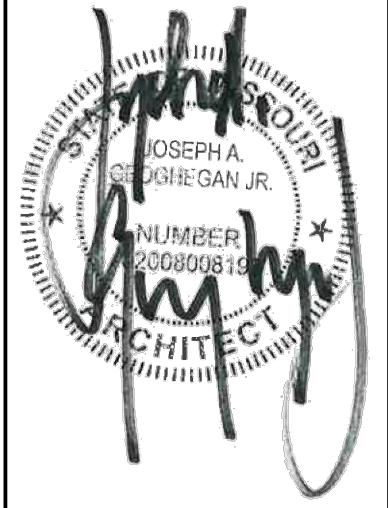
3 MANAGERS DESK - REFERENCE PHOTO

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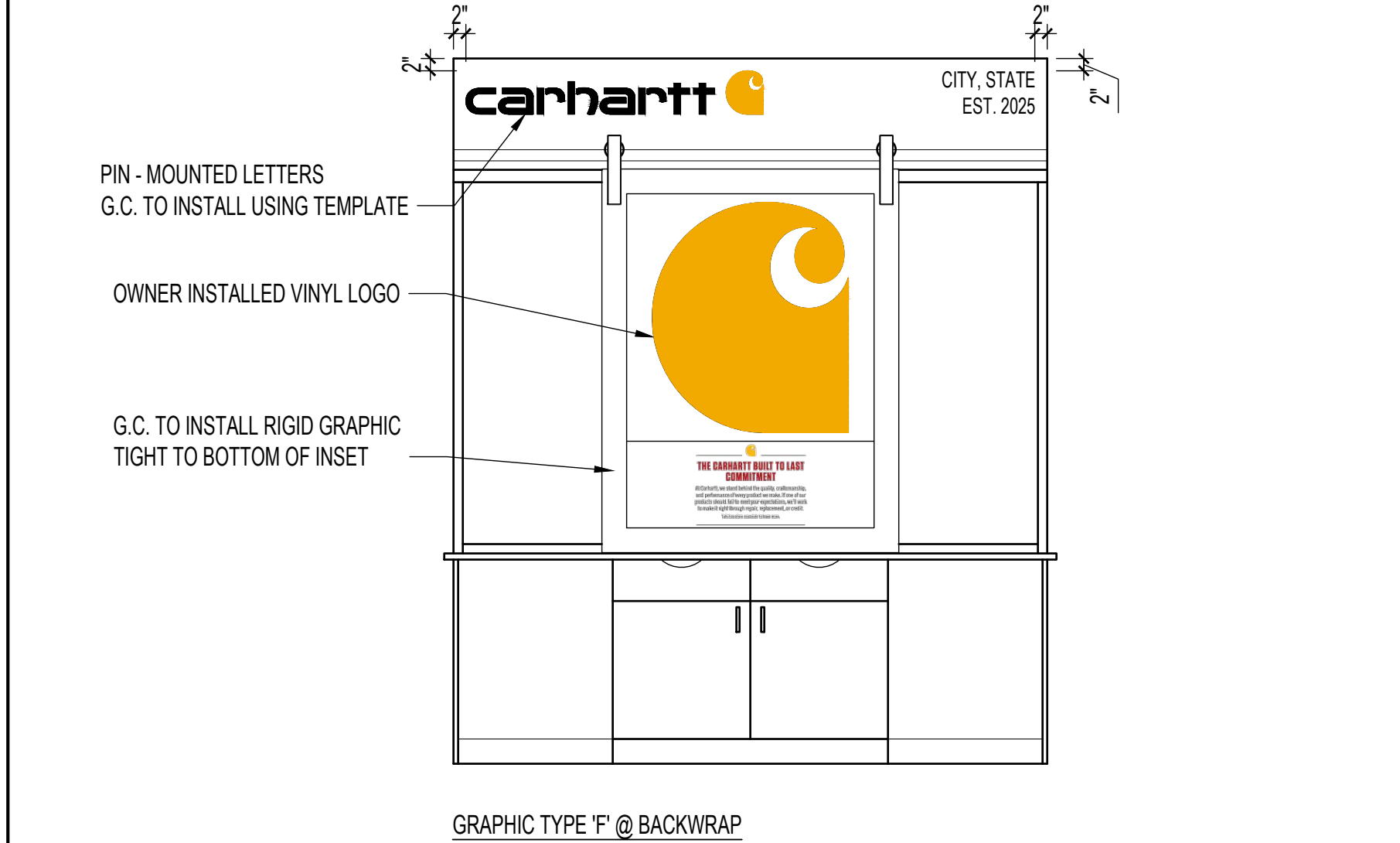
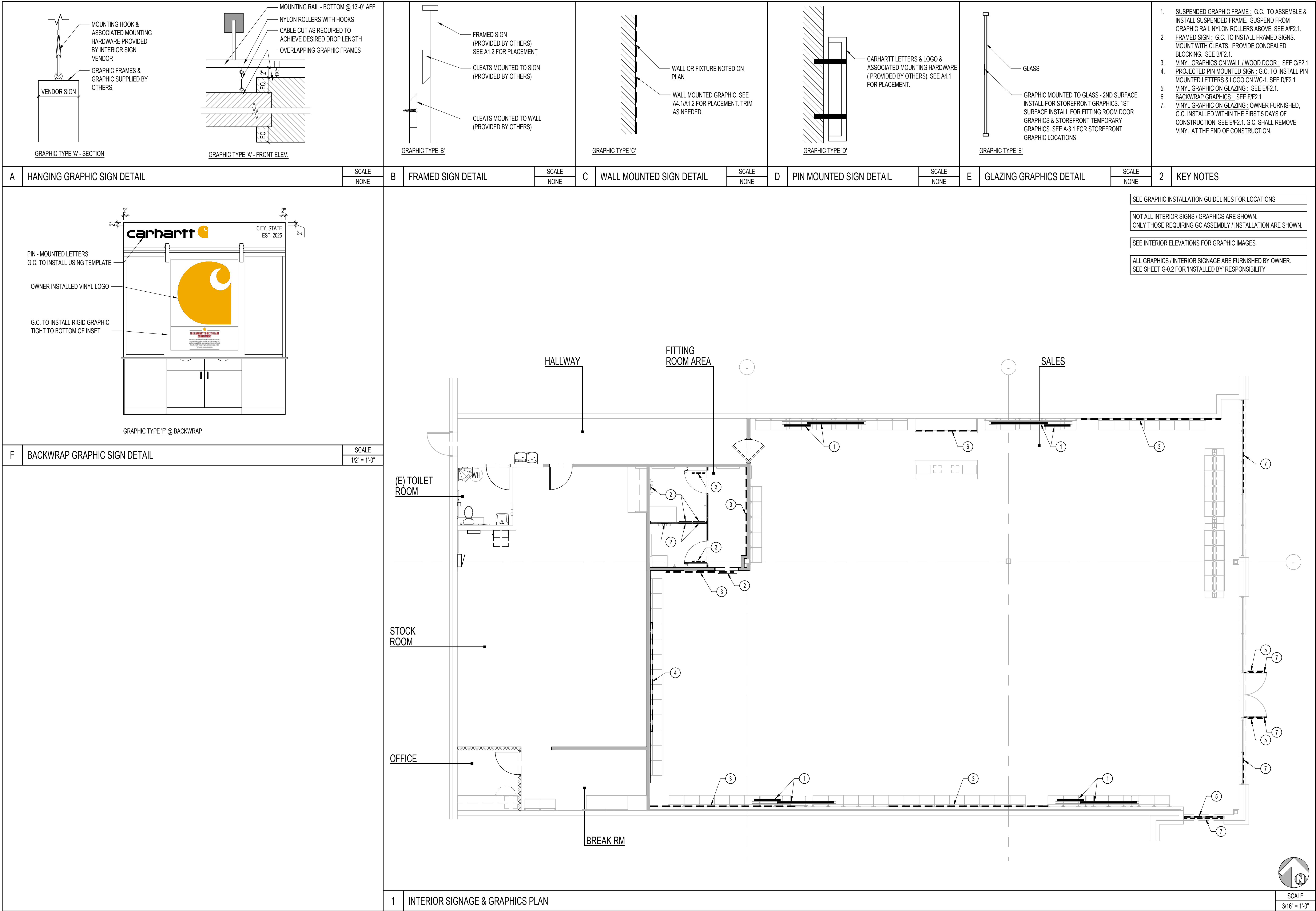
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INTERIOR SIGNAGE &
GRAPHIC PLAN
& DETAILS

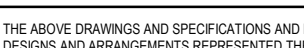
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SHEET NAME	F-2.1





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AT OR ON EQUIPMENT IN PLAN-VIEW ARE SHOWN FOR SCHEMATIC ASSOCIATIONS ONLY. AVOID INSTALLING DISCONNECTS OR CONTROLS ON EQUIPMENT ENCLOSURES. INSTALL ON ADJACENT WALLS OR BUILDING STRUCTURES, OR THROUGH ROOF OR FLOOR. PROVIDE A PERMANENT LABEL ON EACH DISCONNECT OR CONTROL IDENTIFYING THE EQUIPMENT, THE SERVICE AND THE PANEL AND CIRCUIT NUMBER FEEDING THE EQUIPMENT PER NFPA 70, ARTICLE 110.22(A).

L. EQUIPMENT & LOAD COORDINATION: REFER TO AND COORDINATE WITH POWER FLOOR PLANS, EQUIPMENT SCHEDULES (INCLUDING EQUIPMENT COORDINATION SCHEDULES), DRAWINGS OF ALL TRADES, ALL ELECTRICAL AND SERVICE DISTRIBUTION SCHEDULES, AND ALL OTHER INFORMATION TO DETERMINE EQUIPMENT BEING PROVIDED. DETERMINE AND PROVIDE APPROPRIATE BREAKERS, FUSES, CONDUCTORS, CONTROLS, POWER DISTRIBUTION EQUIPMENT, ETC. PERFORM THESE SERVICES PRIOR TO FURNISHING EQUIPMENT TO THE DISTRIBUTION POINTS.

N. EXTERIOR ELECTRICAL WORK AND WORK SUBJECT TO MOISTURE: EXTERIOR ELECTRICAL WORK SHALL BE WEATHERPROOF AND WATER-TIGHT, AND SHALL BE RUST-RESISTANT. PROVIDE XHHW-2 CONDUCTORS FOR APPLICATIONS IN ALL AREAS BELOW GRADE OR SUBJECT TO MOISTURE. PROVIDE MINIMUM NEMA 3B ENCLOSURES FOR ALL OUTDOOR EQUIPMENT AND ALL INDOOR EQUIPMENT THAT IS SUBJECT TO MOISTURE. PROVIDE NEMA 1 ENCLOSURES FOR ALL OTHER INDOOR EQUIPMENT.

N. EQUIPMENT GROUNDING CONDUCTORS: PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), INCLUDING ARTICLE 250 AND TABLE 250.122. THESE CONDUCTORS MAY OR MAY NOT BE INDICATED ON SINGLE-LINE DIAGRAMS OR ELSEWHERE, BUT SHALL BE PROVIDED UNDER BASE BID NEVERTHELESS.

P. OVERHEAD WORK: PROVIDE ALL OVERHEAD WORK TO BE INSTALLED TO THE TOP OF THE STRUCTURE, TO THE BOTTOM OF THE OVERHEAD STRUCTURE, DO NOT INSTALL ANY ELECTRICAL WORK WITHIN SIX INCHES OF ROOF DECKING.

P. COORDINATION DRAWINGS: LAYOUT ALL PROPOSED RACEWAY ROUTING, ELEVATIONS, INSTALLATION METHODS, ETC. ON COORDINATION DRAWINGS AND COORDINATE ALL PROPOSED RACEWAY ROUTING WITH ALL AFFECTED TRADES PRIOR TO COMMENCING WITH WORK. IN ADDITION, REVIEW THE INFORMATION WITH ARCHITECT, ENGINEER AND OWNER FOR ALL AREAS WHERE THE RACEWAYS WILL BE VISIBLE AFTER COMPLETION OF CONSTRUCTION.

P. JUNCTION AND PULL BOXES: LOCATE JUNCTION AND PULL BOXES SO THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO COMMENCEMENT OF THE WORK. LOCATE BOXES IN A MANNER THAT AVOIDS HAVING TO USE ACCESS THROUGH ACCESS PANELS OR THROUGH THE CEILING OR FLOOR. PROVIDE ACCESS PANELS TO ALL RACEWAY SMOKE RATINGS OF THE RESPECTIVE CEILING OR WALL, AND OBTAIN APPROVAL OF DESIGN PROFESSIONALS FOR EACH LOCATION.

P. CONDUIT OR TERMINALS: IN CASES WHERE CONDUCTOR SIZES ARE TOO LARGE TO FIT INTO LUGS/TERMINALS, PROVIDE APPROPRIATE FACTORY LUG KITS FOR AFFECTED EQUIPMENT IF AVAILABLE. ELSEWHERE, PROVIDE INSULATED BUTT-SPLICERS OR EQUIVALENT METHOD, WITH TAILS SIZED TO FIT OVER TERMINALS. PROVIDE INSULATED BUTT-SPLICERS IF REMAINING CONDUCTOR SIZES ARE OVER BOX SIZE LIMITATIONS, ETC. CONCEAL BOXES IN ACCESSIBLE OVERHEAD JOIST SPACES IN FINISHED RACEWAY OCCUPIED AREAS.

S. TYPE ICM, AC, NM, SE/CABLE: WHERE MORE THAN TWO TYPE ICM, AC, NM, OR SE CABLES CONTAINING TWO OR MORE CURRENT CARRYING CONDUCTORS ARE REQUIRED, EACH CABLE SHALL BE INSTALLED IN CONTACT WITH THERMAL INSULATION, CAULK, OR SEALING FOAM MAINTAIN SPACING BETWEEN CABLES.

INTENT OF DOCUMENTS: EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON VISUAL FIELD OBSERVATIONS AND THE REVIEW OF PREVIOUS DRAWINGS THAT MAY NOT HAVE BEEN CERTIFIED "AS-BUILTS." IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN ON THE DRAWINGS. IF ANY EXISTING ELECTRICAL WORK IS SHOWN TO A VERY LIMITED EXTENT ON THE DRAWINGS AND IS SHOWN FOR GENERAL PLANNING REFERENCE ONLY.

B. PRELIMINARY SURVEY: PROVIDE A DETAILED PRE-BID WALK-THROUGH FIELD INSPECTION AND SURVEY TO REVIEW THE EXISTING STRUCTURES AND PREMISES, TO ACCURATELY DETERMINE EXISTING CONDITIONS, AND TO DETERMINE SCOPE OF REQUIRED ELECTRICALLY RELATED WORK. INCLUDE APPLICABLE ACCESSIBLE CEILING CAVITY AREAS IN CONSTRUCTION.

C. REUSE OF REMOVED MATERIALS: DO NOT REUSE REMOVED ELECTRICAL MATERIALS UNLESS SPECIFICALLY INDICATED IN PROJECT DOCUMENTS. EXISTING WIRING SYSTEMS MAY BE UTILIZED ONLY TO THE EXTENT INDICATED IN PROJECT DOCUMENTS.

D. EXISTING POWER DISTRIBUTION EQUIPMENT: WHERE MODIFICATIONS ARE MADE TO EXISTING POWER DISTRIBUTION EQUIPMENT, COMPLETELY RE-TYPE PANELBOARD DIRECTORIES USING ACQUADE "AS-BUILT" INFORMATION, WHEN AVAILABLE. COMPONENTS MUST BE IDENTIFIED BY MANUFACTURER'S NAME, MODEL NUMBER, TYPE, RATING, AND/OR DEVICE(S) OVERCURRENT PROTECTION DEVICES (OPDs) TO MATCH THOSE ALREADY IN PLACE, INCLUDING MANUFACTURER, MODEL/SERIES, SHORT CIRCUIT CURRENT (SCCR/AIC) RATINGS. PROVIDE COMMON TRIPS (NO BREAKERS OR FUSES HAVING DIFFERENT TRIPPING CHARACTERISTICS) TO EACH CIRCUIT. PROVIDE CLEAR LABELING, HACR AND HD RATINGS WHERE APPROPRIATE FOR LOADS. PROVIDE HANDLE LOCK-ON DEVICES FOR EMERGENCY AND CRITICAL LOADS.

E. EXISTING BRANCH CIRCUITS: MAINTAIN, AND RECONNECT IF REQUIRED, BRANCH CIRCUITS THAT ARE EXISTING TO REMAIN. IF CHANGES ARE NOTED OTHERWISE, ALL CIRCUIT DESIGNATIONS SHOWN ON THE DRAWINGS INDICATE NEW CIRCUIT ASSIGNMENTS, NOT EXISTING, WHERE COLOR CODING OF BRANCH CIRCUIT CONDUCTORS DOES NOT COMPLY WITH NFPA 70B OR IS NOT CONSISTENT WITH EXISTING CONDITIONS; MODIFY TO COMPLY.

F. ADDITIONAL CIRCUITS: PROVIDE ADDITIONAL CIRCUITS AS REQUIRED TO BE CONNECTED TO EXISTING LOADS OR CIRCUITS WITH EXISTING LOADS. METER THE EXISTING CIRCUIT IN ADVANCE AND ENSURE THE EXISTING PLUS ADDED LOAD DOES NOT EXCEED 80 PERCENT OF THE SOURCE CIRCUIT BREAKER AMPERE RATING. IF THAT LOAD IS KNOWN, PROVIDE NOTICE TO THE OWNER.

G. REASSIGNMENT OF EXISTING CIRCUITS: IN CASES WHERE EXISTING CIRCUITS ARE REUSED (BASED ON INFORMATION SHOWN ON DRAWINGS OR BASED ON FIELD CONDITIONS) BUT MUST BE CONNECTED TO BREAKERS OTHER THAN THE ORIGINAL BREAKER, THE CONTRACTOR SHALL REWIRE THE CIRCUIT TO BE REUSED TO CORRESPOND TO THE SAME PHASE TO A DIFFERENT LINE/PHASE THAN THE ORIGINAL ONE. USE MEANS AND METHODS COMPLIANT WITH NFPA 70A AND WITH AUTHORITIES HAVING JURISDICTION.

H. TEMPORARY WORK AREA LOCATED: IF REQUIRED TO ACCOMMODATE CONSTRUCTION RELATED ACTIVITIES OR WHERE SPECIFICALLY SHOWN ON THE DRAWINGS, TEMPORARILY REMOVE, STORE IN PROTECTED LOCATION ON SITE, AND REINSTALL CONFLICTING ELECTRICAL EQUIPMENT, LUMINAIRES, OR DEVICES THAT ARE TO BE REMOVED OR TO BE RELOCATED.

I. PROTECTIVE BARRIERS: PROVIDE AND MAINTAIN TEMPORARY PARTITIONS AND DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT FINISHED AREAS AND OTHER SYSTEM COMPONENTS. PROTECT ADJACENT INSTALLATIONS DURING CUTTING AND PATCHING OPERATIONS. REMOVE PROTECTION AND BARriers IMMEDIATELY AFTER THE OPERATION IS COMPLETED.

J. PENETRATIONS: MAKE REQUIRED ELECTRICAL OPENINGS THROUGH WALLS, FLOORS, ETC. IMMEDIATELY PRIOR TO INSTALLATION OF WORK. PROVIDE TEMPORARY SEALS FOR APPLICATIONS WHERE PENETRATIONS ARE MADE BUT CANNOT BE PERMANENTLY SEALED WITHIN FOUR HOURS.

K. ACCESS TO WORK AREAS: PROVIDE ACCESS TO ALL ELECTRICAL WORK IN AREAS ACCESSED UNDER THIS PROJECT AND BRING INTO COMPLIANCE WITH NFPA 70. THIS APPLIES ONLY TO THE EXTENT THAT SUCH WORK IS UNCOVERED IN THE IMMEDIATE PROJECT AREAS AFFECTED BY CONSTRUCTION ACTIVITIES, AND ONLY TO THE LIMITED EXTENT THAT THIS APPLIES TO THE LIMITED AREAS IDENTIFIED. PROVIDE SMOKE DETECTORS AND SMOKE EXHAUST SYSTEMS AT JUNCTION BOX KNOCKOUT, MINOR CONDUIT RE-ANCHORING AND ON EXPOSED WIRING/CONNECTIONS. PROVIDE MORE EXTENSIVE CODE OR SAFETY VIOLETIONS ARE DISCOVERED, IMMEDIATELY BRING THEM TO THE ATTENTION OF THE OWNERS REPRESENTATIVE (DETAILED IN WRITING) ALONG WITH PROPOSED COST FOR CORRECTIONS AND IMPACT TO THE PROJECT.

L. TEMPORARY LIGHTING AND POWER: COMPLY WITH NFPA 70 (INCLUDING ARTICLE 590), NFPA 70E AND ALL OTHER PREVAILING CODES. PROVIDE SUFFICIENT LIGHTING AND POWER CENTERS THROUGHOUT INTERIOR OF NEW WORK IF NECESSARY TO ALLOW FOR SAFE PERFORMANCE OF WORK. PROVIDE TEMPORARY LIGHTING AND POWER TO OTHER TRADES, AND PROVIDE ANY ADDITIONAL TEMPORARY ELECTRICAL NEEDS THAT ARE REQUIRED. FULLY DEMOLISH TEMPORARY ELECTRIC BY END OF PROJECT UPON RECEIVING WRITTEN PERMISSION FROM OWNERS' REPRESENTATIVE. PROVIDE TEMPORARY SERVICE TO THE PROJECT AREA, INCLUDING, BUT NOT LIMITED TO, ELECTRICAL SERVICE, PROVIDE OVERCURRENT PROTECTION, DISCONNECTS, CABLES, CONDUCTORS, RACEWAY, ETC. ACCORDINGLY. PROVIDE TEMPORARY SERVICE FROM UTILITY IF PERMISSION TO USE EXISTING BUILDING POWER IS NOT AVAILABLE BY OTHER MEANS. PROVIDE TEMPORARY SERVICE TO THE PROJECT AREA, INCLUDING, BUT NOT LIMITED TO, ASSOCIATED FEES FOR INSPECTIONS, CONNECTIONS, ETC., AND PAY FOR UTILITY ELECTRIC USAGE/CONSUMPTION COSTS. RESTORE ASSOCIATED SITE AND BUILDING MATERIALS TO THEIR PRE-CONSTRUCTION STATE AND CONDITION BY END OF PROJECT.

M. INTERIM LIFE-SAFETY PROVISIONS: PROVIDE INTERIM FIRE ALARM AND CODE MINIMUM LIGHTING IN DEMOLITION AND CONSTRUCTION AREAS. PROVIDE TEMPORARY PLASTIC COVERS, OBTAINED FROM SMOKE DETECTOR MANUFACTURER OR OTHER AUTHORIZED SUPPLIER, TO PROTECT DETECTORS FROM DAMAGE DUE TO SMOKE DETECTOR PORT MANIPULATION, OVER EXISTING SMOKE DETECTORS WITH PROJECT AREA, ETC. AND IN ADJACENT AREAS THAT ARE EXPOSED TO CONSTRUCTION-RELATED DUST OR AIRBORNE PARTICULATES. REMOVE ALL TEMPORARY LIFE SAFETY WORK WHEN NO LONGER NEEDED.

N. EXIT AND EGRESS ROUTES: PROVIDE TEMPORARY UL 924A COMPLIANT EXIT AND/OR EGRESS LIGHTING ALONG EGRESS ROUTES THAT MUST REMAIN ACCESSIBLE DURING CONSTRUCTION. PROVIDE TEMPORARY FIRE ALARM SYSTEM PULL STATIONS AND AUDIO/VISUAL ALARM NOTIFICATION DEVICES ALONG ALL AFFECTED EGRESS



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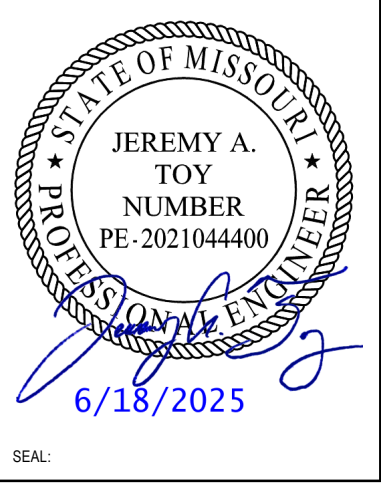


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DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE
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ELECTRIC LIGHTING PLAN

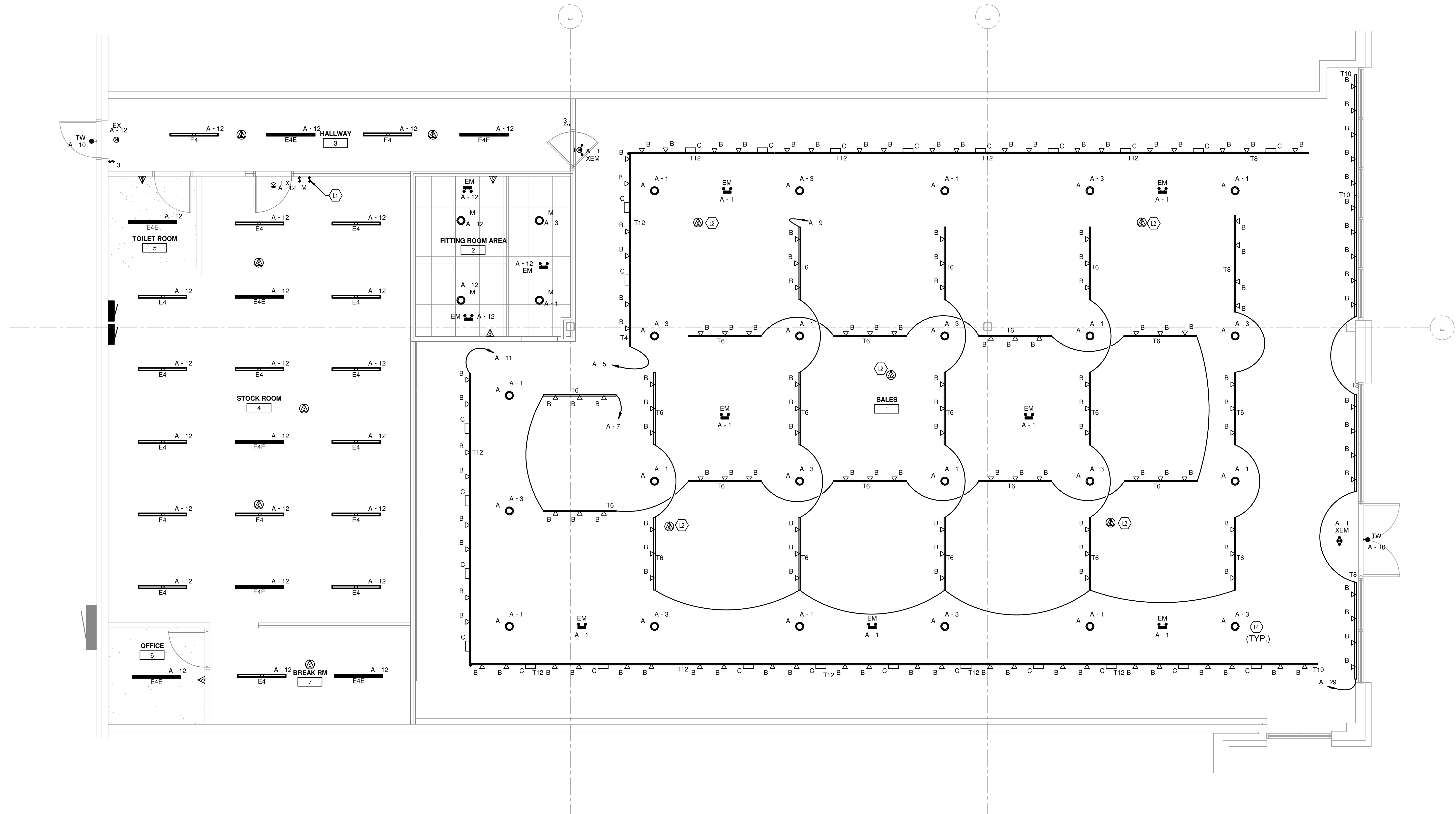
DRAWN BY	DJR
CHECKED BY	MPR
JOB NUMBER	25303
SHEET NAME	E-100

GENERAL LIGHTING PLAN NOTES

A. EXIT SIGN CONNECTIONS: CONNECT ALL EXIT SIGNAGE AHEAD OF ANY SWITCHING.
B. INDOOR EGRESS LIGHTING: CONNECT ALL INDOOR EGRESS LIGHTING, DESIGNATED "EL", AHEAD OF ANY SWITCHING. UNLESS CONTROL METHODS ARE INDICATED OTHERWISE FOR A GIVEN AREA.
C. BATTERY BACKUP DEVICES: WHERE INDICATED IN DOCUMENTS, PROVIDE UL 924 LISTED BATTERY DEVICES, WHICH AUTOMATICALLY REVERT TO FULL ILLUMINATION FOR THE AFFECTED LUMINAIRES IN THE EVENT OF LOSS OF POWER FROM THE NORMAL POWER SUPPLY CIRCUIT. PROVIDE UNSWITCHED "HOT" TO SUCH COMPONENTS TO PROVIDE CONTINUOUS POWER EVEN IF LUMINAIRE IS TURNED OFF USING NORMAL LIGHTING CONTROLS.
D. TRANSFER/RELAY-CONTROL DEVICES: WHERE INDICATED IN DOCUMENTS, PROVIDE TRANSFER/RELAY-CONTROL DEVICES, WHICH AUTOMATICALLY REVERT TO FULL ILLUMINATION FOR THE AFFECTED LUMINAIRES IN THE EVENT OF LOSS OF POWER FROM THE NORMAL POWER SUPPLY CIRCUIT. PROVIDE UNSWITCHED "HOT" TO SUCH COMPONENTS TO PROVIDE CONTINUOUS POWER EVEN IF LUMINAIRE IS TURNED OFF USING NORMAL LIGHTING CONTROLS.

KEYED NOTES

L1	LOCATION OF MASTER SWITCHBANK. SEE LIGHTING DETAILS FOR MORE INFORMATION.
L2	PROVIDE CEILING MOUNTED OCCUPANCY SENSOR TO OVERRIDE SALES AREA GENERAL LIGHTING FOR AFTER-HOURS USE. MOUNT OCCUPANCY SENSOR ON CEILING WITH LIGHT FIXTURES IN THE SAME AREA. CENTER BETWEEN LIGHT FIXTURE, TYP. SEE LIGHTING CONTROL DESIGN INTENT DETAIL ON SHEET E-101 FOR MORE INFORMATION.
L4	SEE THE SWITCH BANK DETAIL. WHERE CIRCUIT IS SHOWN ON THE SWITCHBANK DETAIL, THE INTENT IS FOR ALL LIGHTING ON THAT CIRCUIT TO BE CONTROLLED BY THE SWITCH VIA A CONTACTOR CONTROLLED BY THE TIMECLOCK, EXCEPT FOR EMERGENCY AND EXIT LIGHTING, WHICH SHALL BE CONNECTED TO THE CIRCUIT AHEAD OF ALL SWITCHING.



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

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ELECTRIC LUMINAIRE SCHEDULE

GENERAL NOTES: A. REFER TO "COMMENTS" COLUMN FOR MOUNTING TYPE, NUMBER OF FACES AND ARROWS OF EXIT SIGNS. VERIFY IN FIELD PRIOR TO INSTALLATION. B. VERIFY COMPATIBILITY WITH VOLTAGE, CONTROLS, ETC. FOR ALL LUMINAIRE COMPONENTS. C. COORDINATE EACH LUMINAIRE LOCATION WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, CEILING INSTALLERS, ETC. AND PROVIDE APPROPRIATE MOUNTING SYSTEM REQUIRED FOR EACH LUMINAIRE. ALSO, PROVIDE PLASTER FRAMES, WALL BRACKETS, SUPPORTS, OR OTHER APPURTENANCES AS REQUIRED FOR PROPER AND COMPLETE INSTALLATIONS. D. WEAR CLEAN WHITE COTTON GLOVES WHEN HANDLING EXPOSED REFLECTIVE LUMINAIRE SURFACES. REMOVE PLASTIC SHIPPING BAGS ONLY AFTER INTERIOR WORK IS COMPLETE, AND CLEAN ALL SURFACES WITH CLEAN DRY CHEESECLOTH. E. MOUNTING HEIGHTS INDICATED ARE TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED. F. PRODUCTS: PROVIDE PRODUCTS INDICATED ON DRAWINGS AND SCHEDULES. WHERE MULTIPLE MANUFACTURER SERIES/MODEL NUMBERS ARE LISTED FOR A SINGLE LUMINAIRE, PROVIDE ONE OF THOSE LISTED. WHERE A SPECIFIC MANUFACTURER SERIES/MODEL NUMBER IS LISTED AS BASIS-OF-DESIGN, AND WHERE IT IS STATED THAT EQUIVALENTS WILL BE CONSIDERED, ANY PROPOSED NON-LISTED LUMINAIRES ARE SUBJECT TO REVIEW BY DESIGN PROFESSIONAL(S), SUBMITTALS FOR WHICH SHALL BE FURNISHED AT LEAST (10) DAYS PRIOR TO BID DUE DATE OR THEY WILL NOT BE CONSIDERED. THESE PRE-BID SUBMITTALS SHALL CLEARLY STATE EXACTLY WHAT IS BEING PROPOSED AND SHALL DEMONSTRATE COMPLIANT EQUIVALENCY. G. LIGHT FIXTURES AND LAMPS ARE TO BE PROVIDED BY THE GC. PURCHASE FROM OWNER REQUIRED SUPPLIER (SEE G0.0 FOR CONTACT INFORMATION).															
TYPE	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	LIGHT SOURCE	LAMP QTY	DRIVER	DRIVER QTY	BATTERY	BATTERY TYPE	FINISH	LOAD (VA)	UNIVERSAL VOLTAGE (MVOLT)	VOLTAGE	Comments
A	HI BAY LIGHTING	SPECTRUM LIGHTING	ALDDH16LX-100L-35K-DS10X-CD72-AL16/MW-DR1 6D-CNFR-PT	PENDANT	LED	1	ELECTRONIC	1	No	NONE	PREMIUM SILVER	81 VA	Yes	120 V	MOUNT AT 13'-0" AFF
B	TRACK HEAD - LED SPOT	CONTECH	CTL2638-NAB	TRACK	LED	1	ELECTRONIC	1	No	NONE	BLACK	19 VA	Yes	120 V	
C	TRACK HEAD - WALL WASHER	CONTECH	CTL192HD-B	TRACK	LED	1	ELECTRONIC	1	No	NONE	BLACK	28 VA	Yes	120 V	
E4	LINEAR LED	NICOR	LSL-1-4-455-U-S-8	SURFACE	INTEGRAL LED	1	N/A	1	No	NONE	WHITE	45 VA	Yes	120 V	MOUNT AT 12'-0" AFF; PROVIDE 3500K MODEL
E4E	LINEAR LED	NICOR	LSL-1-4-455-U-S-EM8	SURFACE	INTEGRAL LED	1	N/A	1	Yes	INTEGRAL-90 MINUTE	WHITE	45 VA	Yes	120 V	MOUNT AT 12'-0" AFF; PROVIDE 3500K MODEL
EM	EMERGENCY LIGHTING UNIT	LITHONIA	ELM4L	PENDANT/SURFACE	LED	1	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTE	WHITE	8 VA	Yes	120 V	
EX	EXIT SIGN WITH BATTERY BACK-UP	COOPER	APXEL-7-1-R	SURFACE	LED	1	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTE	WHITE	3 VA	Yes	120 V	PROVIDE WITH 90 MINUTE BATTERY BACKUP.
M	HI BAY LIGHTING	DAC LIGHTING	DS242-LED35-120-AN-COIL	PENDANT	INTEGRAL LED	1	ELECTRONIC	1	No	NONE	SILVER	35 VA	No	120 V	MOUNT AT 9'-0" AFF
T4	TRACK	CONTECH	SINGLE CIRCUIT TRACK - BLACK	PENDANT/SURFACE	N/A	1	N/A	1	No	NONE	BLACK	0 VA	Yes	120 V	SURFACE MOUNT ON GYP BD CEILINGS. SUSPEND AT 13'-0" AFF IN OPEN TO DECK AREAS.
T6	TRACK	CONTECH	SINGLE CIRCUIT TRACK - BLACK	PENDANT/SURFACE	N/A	1	N/A	1	No	NONE	BLACK	0 VA	Yes	120 V	SURFACE MOUNT ON GYP BD CEILINGS. SUSPEND AT 13'-0" AFF IN OPEN TO DECK AREAS.
T8	TRACK	CONTECH	SINGLE CIRCUIT TRACK - BLACK	PENDANT/SURFACE	N/A	1	N/A	1	No	NONE	BLACK	0 VA	Yes	120 V	SURFACE MOUNT ON GYP BD CEILINGS. SUSPEND AT 13'-0" AFF IN OPEN TO DECK AREAS.
T10	TRACK	CONTECH	SINGLE CIRCUIT TRACK - BLACK	SURFACE	N/A	1	N/A	1	No	NONE	BLACK	0 VA	Yes	120 V	
T12	TRACK	CONTECH	SINGLE CIRCUIT TRACK - BLACK	PENDANT/SURFACE	N/A	1	N/A	1	No	NONE	BLACK	0 VA	Yes	120 V	SURFACE MOUNT ON GYP BD CEILINGS. SUSPEND AT 13'-0" AFF IN OPEN TO DECK AREAS.
TW	EXTERIOR EGRESS FIXTURE	TRACE LITE	SLW-15-4K-WH-EM-NS	WALL MOUNTED	LED	2	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTE	WHITE	10 VA	Yes	120 V	
XEM	EXIT SIGN EMERGENCY LIGHT COMBO WITH BATTERY BACKUP	SURE-LITES	APC7RSQ	SURFACE	LED	2	ELECTRONIC	1	Yes	INTEGRAL-90 MINUTE	WHITE	4 VA	Yes	120 V	PROVIDE WITH 90 MINUTE BATTERY BACKUP; MOUNT AT 10'-0" AFF



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JEREMY A. TOY
NUMBER
PE-2021044400
6/18/2025

SEAL:

ELECTRIC CONTACTOR SCHEDULE

NOTES:
1) PROVIDE A MINIMUM OF (2) SPARE CONTACTS IN EACH CONTACTOR UNLESS NOTED OTHERWISE.
2) REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3) CONTACTOR DESIGNATIONS DO NOT INDICATE QUANTITY OF CONTACTORS, THEY INDICATE CONTACTOR GROUPING(S) AND COMMON CONTROL METHODS ONLY. PROVIDE QUANTITY OF CONTACTOR(S) NEEDED TO ACCOMMODATE NUMBER OF POLES SHOWN.

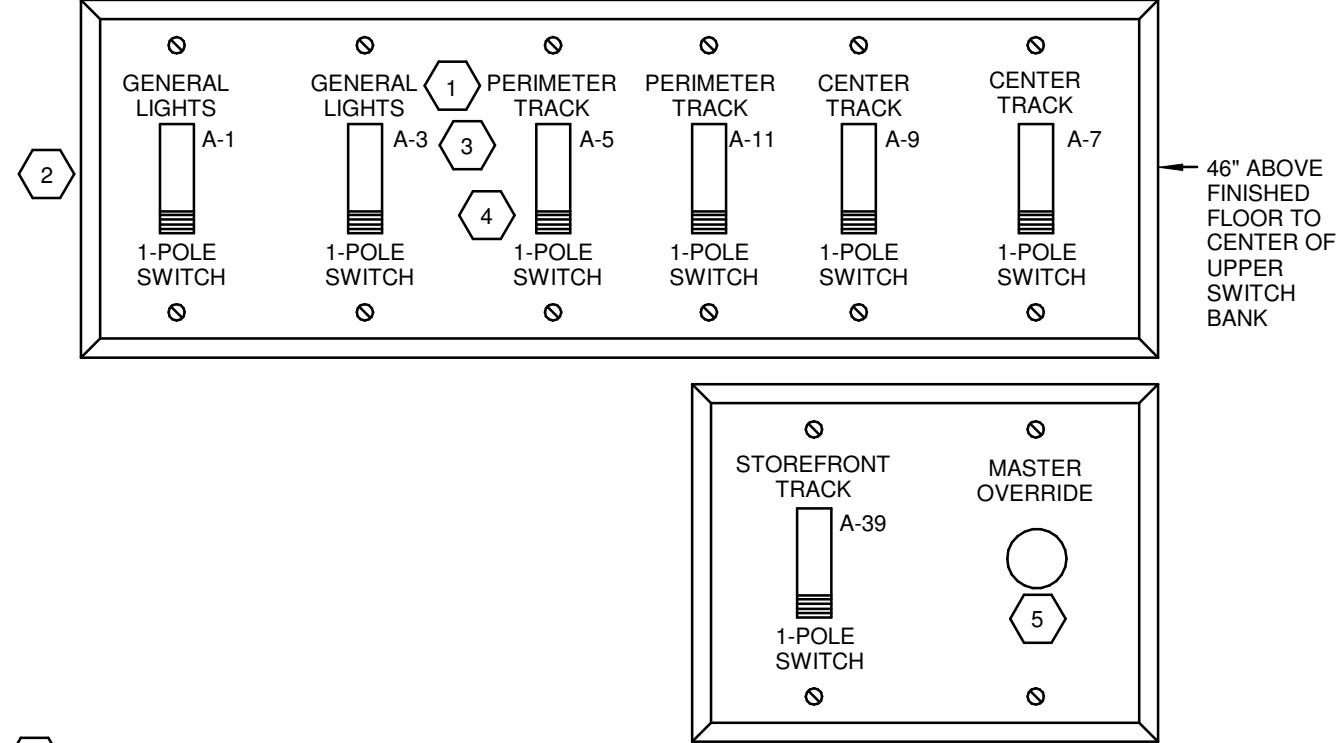
CONTROL ZONE DESCRIPTION & CONTACTOR CONTROL METHOD

C1 - STOREFRONT

C2 - INTERIOR LIGHTING

C3 - EXTERIOR LIGHTING/SIGNAGE

SUPPLY	CIRCUIT NUMBER	NUMBER OF POLES	CONTACT CURRENT	LOAD NAME
C1				
A	29	1	3 A	LTG SALES 1
A	27	1	8 A	SHOW WINDOW RECEPTACLES
C2				
A	1	1	9 A	SALES GENERAL LTG
A	5	1	7 A	PERIMETER TRACK
A	11	1	8 A	PERIMETER TRACK
A	9	1	7 A	CENTER TRACK
A	7	1	5 A	CENTER TRACK
A	19	1	5 A	RIGHT FITTING ROOM AREA 2
A	3	1	8 A	SALES GENERAL LTG
C3				
A	8	1	10 A	SIGNAGE / CONTINUOUS
A	10	1	0 A	EXTERIOR LIGHTING

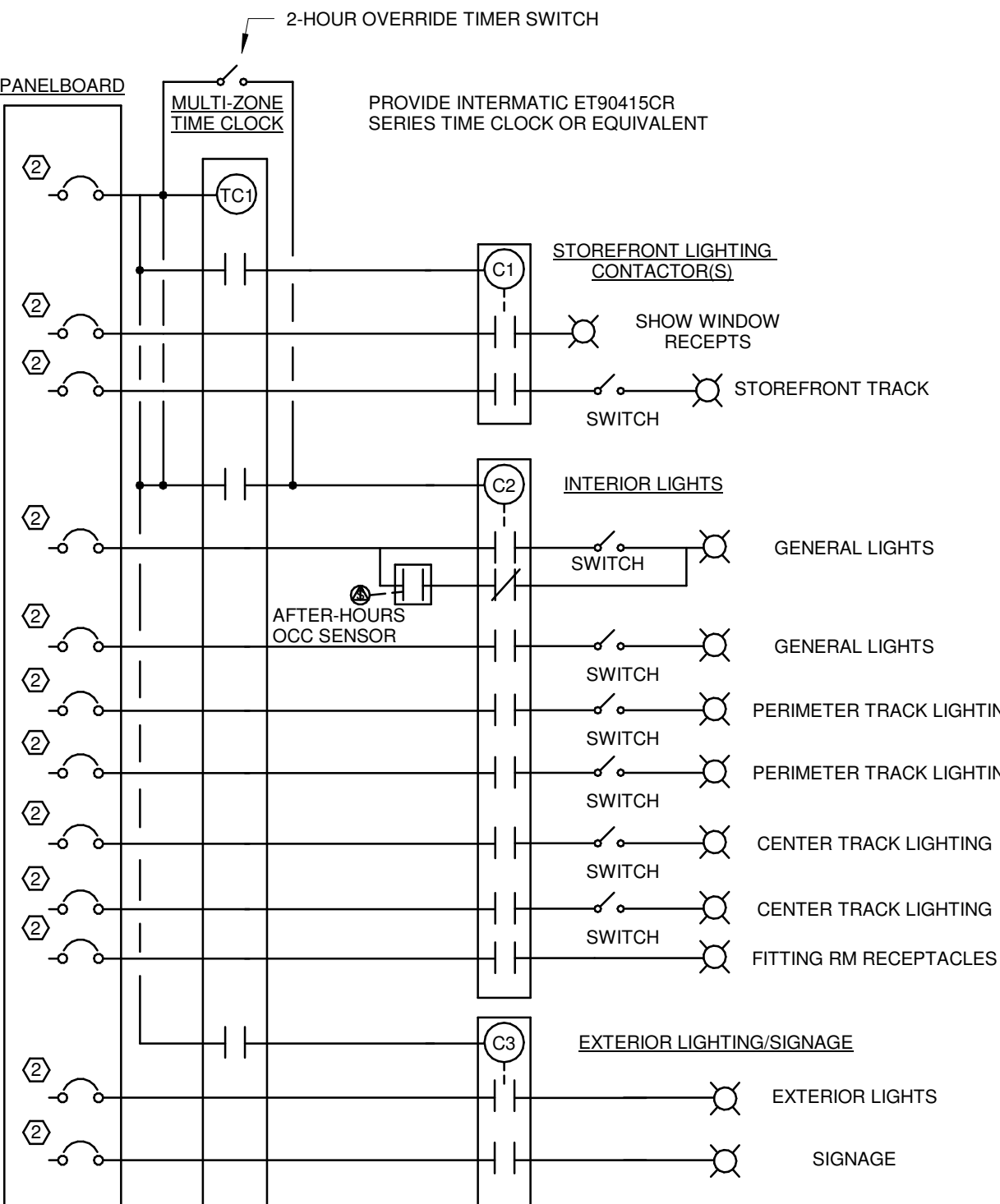


KEYED NOTES:

- PROVIDE ENGRAVED DESCRIPTION WITH BLACK REVEAL & +/- 3/16" HIGH LETTERING (TYPICAL).
- SEE SPECIFICATIONS FOR WALL PLATE MATERIAL, STYLE AND TYPE (TYPICAL).
- SWITCHING DESIGNATION (TYPICAL - SHOWN FOR REFERENCE ONLY, NOT TO BE ENGRAVED).
- TYPE OF SWITCH (TYPICAL - SHOWN FOR REFERENCE ONLY, NOT TO BE ENGRAVED).
- PROVIDE MASTER OVERRIDE SWITCH.

MASTER SWITCH BANK DETAIL

SCALE: NONE



LIGHTING CONTROL DESIGN INTENT

STOREFRONT SIGNAGE AND EXTERIOR LIGHTING:

HARDWARE: TIMECLOCK AND CONTACTOR
CONTROL INTENT: STOREFRONT SIGNAGE SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.

SALES AREA DISPLAY LIGHTS:

HARDWARE: WALL MOUNTED TOGGLE SWITCHES, LIGHTING CONTACTOR, TIMECLOCK, AND TIMER SWITCH.
CONTROL INTENT: DURING BUSINESS HOURS (HOURS PROGRAMMED INTO TIMECLOCK) THE DISPLAY LIGHTS AND TRACK LIGHTING SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.
THE TIMER SWITCH SHALL OVERRIDE THE TIMECLOCK SCHEDULING (FOR A MAXIMUM OF 2-HOURS) AND ALLOW FOR AFTER HOURS CONTROL OF THE LIGHTING.

SALES AREA GENERAL LIGHTING:

HARDWARE: WALL MOUNTED TOGGLE SWITCHES, TIMECLOCK/TIMER SWITCH, AND OCCUPANCY SENSOR.
CONTROL INTENT: DURING BUSINESS HOURS (HOURS PROGRAMMED INTO TIMECLOCK) THE SALES AREA GENERAL LIGHTING SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.
THE TIMER SWITCH SHALL OVERRIDE THE TIMECLOCK SCHEDULING (FOR A MAXIMUM OF 2-HOURS) AND ALLOW FOR AFTER HOURS CONTROL OF THE LIGHTING. OCCUPANCY SENSORS SHALL ALLOW FOR AFTER HOURS GENERAL LIGHTING OVERRIDE WHENEVER THE CONTACTOR IS OFF.

STOREFRONT LIGHTING AND RECEPTACLES:

HARDWARE: WALL MOUNTED TOGGLE SWITCH, LIGHTING CONTACTOR(S), AND TIMECLOCK.
CONTROL INTENT: STOREFRONT LIGHTING, RECEPTACLES AND SIGNAGE SHALL TURN "ON" AND "OFF" BASED ON THE TIME SCHEDULE(S) PROGRAMMED INTO THE TIMECLOCK.

KEYED NOTES:

- PROVIDE TIME-BASED CONTROL FOR APPLICABLE CIRCUITS AS DEFINED ON TIMECLOCK SCHEDULE.
- PROVIDE CONTACTOR CONTROL FOR APPLICABLE CIRCUITS AS DEFINED ON LIGHTING CONTACTOR SCHEDULE.

LIGHTING CONTROL DESIGN INTENT

SCALE: NONE

ELECTRIC LIGHTING - DETAILS

DRAWN BY
DJR
CHECKED BY
MPR
JOB NUMBER
25303
SHEET NAME
E-101



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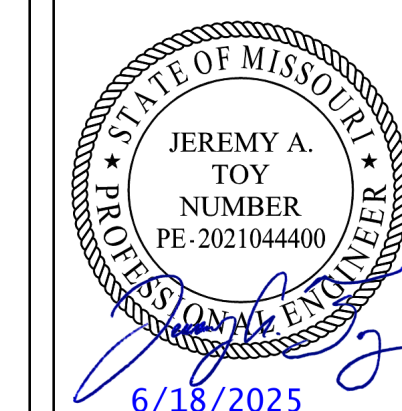
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carhartt
SUMMIT WOODS CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

ELECTRIC POWER PLAN

DRAWN BY

CHECKED BY _____

LOG NUMBER

25303

SHEET NAME

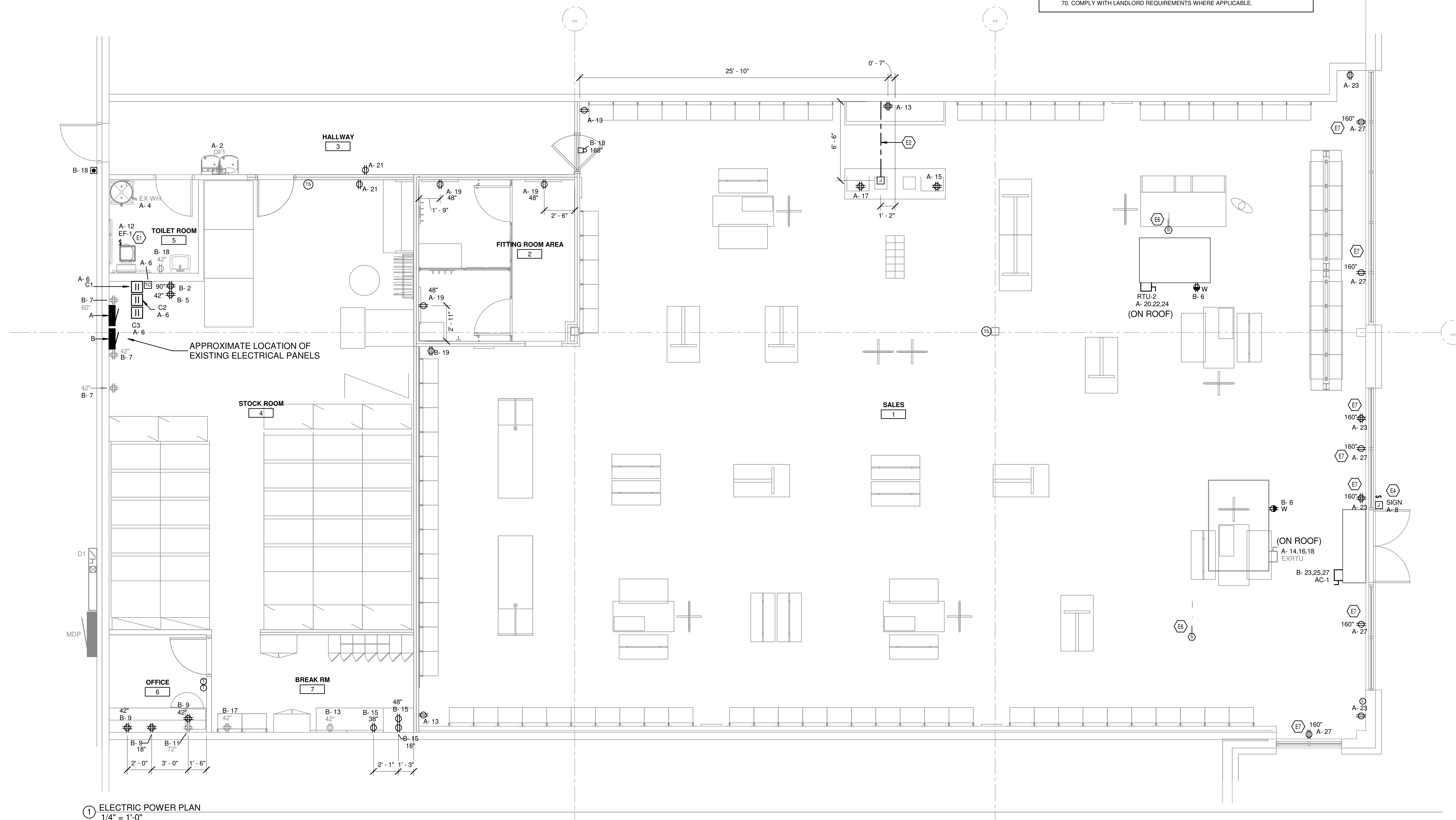
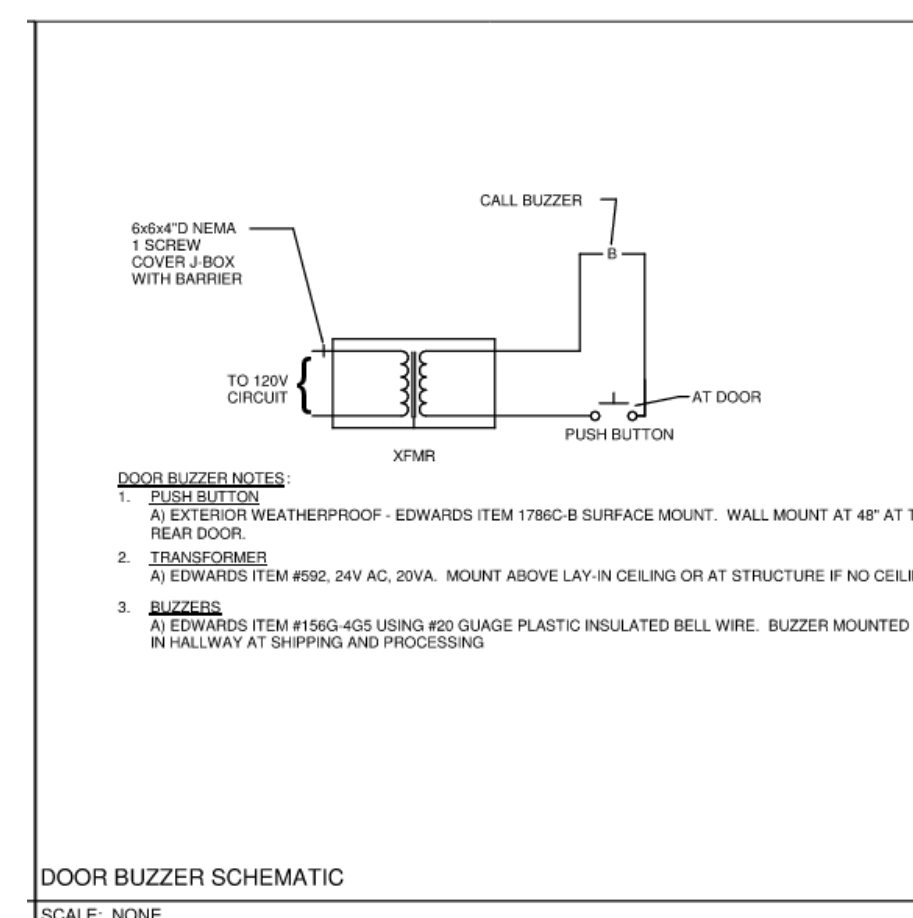
E-200

KEYED NOTES

E1	INTERLOCK EXHAUST FAN CONTROLS WITH RESTROOM LIGHTING CONTROLS.
E2	PROVIDE (2) 1" CONDUITS FOR POWER AND (1) 1-1/2" CONDUIT FOR DATA. STUB-UP IN BACK W/RAV. COORDINATE CORING AND CONDUIT ROUTING WITH LANDLORD PRIOR TO BID. COORDINATE STUB UP LOCATION WITH MILLWORK VENDOR PRIOR TO HIGH-RISE.
E4	PROVIDE POWER AND CONTROL W/IR W/ SIGNAL CONNECTIONS, ETC. FOR SIGNAGE. COORDINATE EXACT LOCATION, HEIGHT, AND ELECTRICAL REQUIREMENTS WITH SIGNAGE INSTALLER AND PROVIDE ELECTRICAL WORK ACCORDINGLY. WHERE THE SIGN IS NOT PROVIDED WITH AN INTEGRAL DISCONNECTING MEANS, PROVIDE A PUSH-MOUNTED, LOCAL DISCONNECT SWITCH LOCATED IN AN ACCESSIBLE, BUT ACCESSIBLE LOCATION WITHIN SITE OF THE SIGN. WHERE THIS IS NOT POSSIBLE, PROVIDE LOCK-OUT, TAG-OUT BREAKER IN SOURCE PANELBOARD IN FIELD OF LOCAL DISCONNECT SWITCH AND A LABEL INSIDE THE SIGN ENCLOSURE IDENTIFYING THE BREAKER'S LOCATION PER NEC 600.6(A)(2).
E6	SMOKE DETECTOR INDICATED IS FOR SHUTDOWN OF ASSOCIATED MECHANICAL EQUIPMENT (TAGGED ADJACENT TO THE DETECTOR). QUANTITY AND TYPE SHOWN IS SCHEMATIC ONLY. PROVIDE QUANTITIES AND TYPES AS NOTED. PROVIDE DETECTOR AND WIRING. WIRING USED BY MECHANICAL CONTRACTOR SHALL INSTALL ALL DETECTORS THAT ARE INSIDE OF DUCTWORK. PROVIDE ALL RELATED WORK SO THAT WHEN SMOKE IS DETECTED THE ASSOCIATED MECHANICAL EQUIPMENT SHUTS DOWN UNTIL ALARM IS CLEARED AT THE FIRE ALARM PANEL. REFER TO FIRE ALARM SPECIFICATIONS FOR MORE INFORMATION.
E7	PROVIDE RECEPTACLE WITH BLACK FINISH.

GENERAL POWER PLAN NOTES

- [illegible]




① ELECTRIC POWER PLAN
1/4" = 1'-0"



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ELECTRIC DISCONNECT SCHEDULE

NOTES:
A. WIRES: THE NUMBER OF WIRES INDICATED INCLUDES A GROUNDED (NEUTRAL) CONDUCTOR UNLESS IT WAS VERIFIED DURING DESIGN THAT ONE IS NOT REQUIRED. THE GROUNDED CONDUCTOR MAY BE OMITTED IF NOT REQUIRED BY THE EQUIPMENT BEING SERVED.
B. ENCLOSURE: WHERE FIELD IS BLANK, PROVIDE NEMA 1 ENCLOSURE FOR INDOOR INSTALLATIONS, NEMA 3R ENCLOSURE FOR OUTDOOR INSTALLATIONS OR INDOOR INSTALLATIONS SUBJECT TO MOISTURE, AND NEMA 4X FOR ALL KITCHEN AND WASH DOWN AREAS.
C. SHORT CIRCUIT RATING: WHERE FIELD IS BLANK, PROVIDE A SHORT CIRCUIT RATING THAT EXCEEDS THE LISTED FAULT CURRENT.

EQUIPMENT	SPACE NUMBER	SPACE NAME	SUPPLY FROM	CIRCUIT NUMBER	VOLTAGE	PHASE	WIRES	TRIP RATING (A)	FRAME RATING (A)	DEMAND (A)	OCP TYPE	FEEDER OR BRANCH CIRCUIT	ULSE	GEC	ENCLOSURE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	COMMENTS
Disconnect - Toggle Switch																		
EF-1	5	TOILET ROOM	A	12	120 V	1	2	15	30	0 A		(2) #12 AWG CU, (1) #12 AWG CU GND. IN 3/4" CONDUIT 60C RATED				6879		
EX-WH	5	TOILET ROOM	A	4	120 V	1	2	20	30	14 A		(2) #12 AWG CU, (1) #12 AWG CU GND. IN 3/4" CONDUIT 60C RATED				3962		
Fused Switch																		
D1			WW	1	208 V	3	4	200	200	199 A	FUSED	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			NEMA 3R	42700	EXISTING	
Safety Switch																		
AC-1	1	SALES	B	23,25,27	208 V	3	4	60	60	43 A		(4) #8 AWG CU, (1) #10 AWG CU GND. IN 1-1/4" CONDUIT 60C RATED				3175		
EXRTU	1	SALES	A	14,16,18	208 V	3	4	80	100	58 A		(4) #8 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 60C RATED				3889		
RTU-2	1	SALES	A	20,22,24	208 V	3	4	40	60	26 A		(4) #8 AWG CU, (1) #10 AWG CU GND. IN 1" CONDUIT 60C RATED				1915		

HVAC ELECTRICAL COORDINATION SCHEDULE

ABBREVIATIONS										CONTRACTOR TYPE										MOTOR CONTROL TYPE										CONTROL TYPE										SHORT CIRCUIT RATING									
DC	LOCAL DISCONNECT									EC	ELECTRICAL CONTRACTOR									CS	COMBINATION STARTER									TC	TIMECLOCK									WHERE SHORT CIRCUIT RATING CODE REQUIRED VALUE INDICATES "YES" FOR EQUIPMENTS SHORT CIRCUIT RATING SHALL EXCEED THE AVAILABLE FAULT CURRENT VALUE INDICATED.									
MC	MOTOR CONTROL (POWER)									EX	EXISTING									MCC	MOTOR CONTROL STARTER									CPT	CONTROL POWER TRANSFORMER																		
SD	DUCT SMOKE DETECTOR									FC	FIRE PROTECTION CONTRACTOR									MG	MAGNETIC STARTER OR CONTACT									BAS	BUILDING AUTOMATION SYSTEM																		
CN	CONTROLS									GC	GENERAL CONTRACTOR									MS	MANUAL STARTER									LOW	LOW VOLTAGE CONTROLS																		
TS	TOGGLE SWITCH									HC	HVAC CONTRACTOR									VFD	VARIABLE FREQUENCY DRIVE									LINE	LINE VOLTAGE CONTROLS																		
C/B	H.A.C.R. CIRCUIT BREAKER AT SOURCE PANELBOARD									MFR	MANUFACTURER									MSR	MANUAL STARTER W/ CONTROL RELAY									R/LINE	REVERSE ACTING LINE VOLTAGE THERMOSTAT																		
FUSE	FUSE AT LOCAL DISCONNECT (VERIFY FIELD RATING)									PC	PLUMBING CONTRACTOR									OV	OVERCURRENT PROTECTION									MAN	MANUAL																		
FLA	OPERATING FULL LOAD AMPS									OR	OWNER OR OTHERS																																						
MCA	MINIMUM CIRCUIT AMPACITY																																																
CP	CORD AND PLUG CONNECTION																																																
[BLANK]	HARD WIRED (WHEN INDICATED FOR DC TYPE)																																																
CONNECTION MARK	DESCRIPTION									VOLTAGE	PHASE	EMERGENCY	HP	WATTS	HTG KW	FLA	MCA	OCP	FED FROM	DC TYPE	DC FURN	DC INST	DC WIRE	MC TYPE	MC FURN	MC INST	MC WIRE	CN TYPE	CN FURN	CN INST	CN WIRE	FA SHUTDOWN	SHORT CIRCUIT RATING CODE REQUIRED?	AVAILABLE FAULT CURRENT															
AC-1	AIR CURTAIN W/ELECTRIC HEAT									208 V	3	NO	0.4			8		47.3	60			EC	EC	EC	EC	MG	MFR	MFR	MFR	INT	MFR	MFR	MFR	NONE	No	3175													
EF-1	HVAC EXHAUST FAN									120 V	1	NO				0.29		0.4	15			EC	EC	EC	EC	EC	MFR	MFR	MFR	MAN	EC	EC	EC	NONE	No	6879													
EXRTU	PACKAGED ROOFTOP UNIT, GAS HEAT									208 V	3	NO						64	80			EC	EC	EC	EC	EC	MFR	MFR	MFR	LOW	HC	HC	HC	DUCT	Yes	3889													
RTU-2	PACKAGED ROOFTOP UNIT, GAS HEAT									208 V	3	NO						29	40			EC	EC	EC	EC	EC	MFR	MFR	MFR	LOW	HC	HC	HC	DUCT	Yes	1915													

ELECTRIC PANELBOARD AND SWITCHBOARD SCHEDULE

TYPICAL EQUIPMENT NAME NOMENCLATURE:
1 - POWER DISTRIBUTION SYSTEM (BLANK - NORMAL, E - EMERGENCY, S - STANDBY, L - LIFE SAFETY)
2 - DESCRIPTION (H - 480Y/277V, L - 208Y/120V)
3 - FLOOR / LEVEL
4 - SEQUENCE

ALL ALUMINUM BUSSING SHALL BE TIN-PLATED. ALL COPPER BUSSING SHALL BE EITHER TIN-PLATED OR SILVER-PLATED

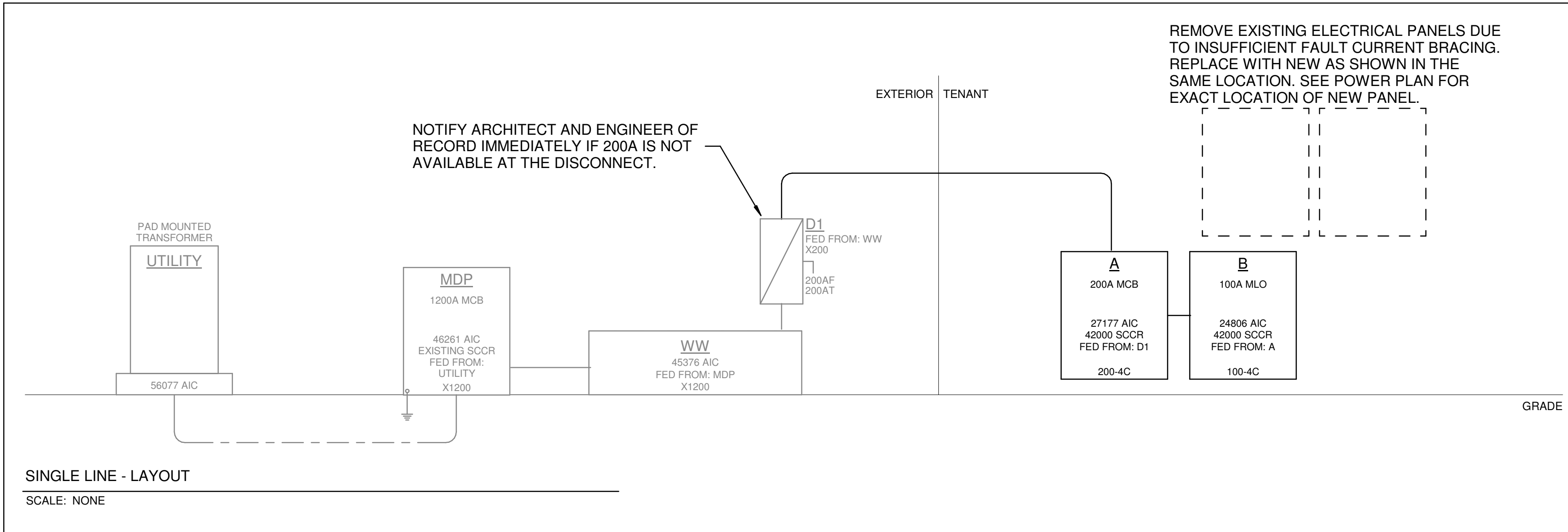
EQUIPMENT	PHASE	SPACE NUMBER	SPACE NAME	SUPPLY FROM	POWER BRANCH	TYPE	VOLTAGE	PHASE	WIRES	DEMAND (KVA)	DEMAND (A)	MAINS RATING (A)	MAINS FRAME RATING (A)	MAINS TYPE	BUSSING (PLATED)	MOUNTING	FEEDER	LUGS TYPE	SPD	ULSE	GEC	ENCLOSURE TYPE	FAULT CURRENT (A)	SHORT CIRCUIT RATING (A)	NOTES
A	New Construction	4	STOCK ROOM	D1		Branch Panelboard	208	3	4	71692 VA	199 A	200	200	THERMAL MAGNETIC	COPPER OR ALUMINUM	SURFACE	(4) #30 AWG CU, (1) #6 AWG CU GND. IN 2" CONDUIT 75C RATED					NEMA 1	27177	42000	
B	New Construction	4	STOCK ROOM	A		Branch Panelboard	208	3	4	24290 VA	67 A	100	100	MAIN LUGS ONLY	COPPER OR ALUMINUM	SURFACE	(4) #3 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 75C RATED					NEMA 1	24806	42000	
MDP	Existing	4		UTILITY		Distribution Panelboard	208	3	4	71692 VA	199 A	1200	1200	THERMAL MAGNETIC	COPPER OR ALUMINUM	SURFACE	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE			Yes	Yes	NEMA 3R	46261	EXISTING	

ELECTRIC FEEDER SCHEDULE

NOTES:
ALL CONDUIT SIZES INDICATED ARE MINIMUM SIZES. INCREASE SIZES AS REQUIRED TO ACCOMMODATE CONDUCTOR PULLING EASE, FIELD CONDITIONS, ETC.
"CU" = COPPER CONDUCTOR, "AL" = ALUMINUM CONDUCTOR
** WHERE THESE FIELDS ARE BLANK, PROVIDE INSULATION & CONDUIT MATERIAL PER THE...

FEEDER ID NOMENCLATURE:
* - INDICATES FEEDER SIZED TO COMPENSATE FOR VOLTAGE DROP
1 - GROUND TYPE (MAY BE BLANK)
U = EQUIPMENT GROUND CONDUCTOR REMOVED FOR SERVICE ENTRANCE FROM UTILITY
P = PARITY-SIZED EQUIPMENT GROUND CONDUCTOR
X = EXISTING FEEDER TO REMAIN UNLESS OTHERWISE NOTED
T = UPSIZED GROUND CONDUCTORS FOR TRANSFORMER SECONDARY
2 - CONDUCTOR AMPACITY
3 - TOTAL NUMBER OF PHASE AND GROUNDED ("NEUTRAL") CONDUCTORS
4 - CONDUCTOR MATERIAL: C = COPPER, A = ALUMINUM
5 - SPECIAL (MAY BE BLANK)
I = ISOLATED GROUND (PROVIDE CONTINUOUS INSULATED ISOLATED EQUIPMENT GROUNDING CONDUCTOR(S) FROM INSULATED ISOLATED GROUND BAR(S) TO RESPECTIVE UPSTREAM SERVICE ENTRANCE OR DERIVED SYSTEM GROUNDING ELECTRODE CONDUCTOR AS APPLICABLE.)

SUPPLY TO	SUPPLY FROM	FEEDER ID	FEEDER	DEMAND (A)	VD %	NOTES
UTILITY	UTILITY	X1200	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE	199 A	0.092	
MDP	MDP	X1200	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE	199 A	0.102	
D1	WW	X200	EXISTING FEEDER, AT RATING INDICATED, TO REMAIN UNLESS NOTED OTHERWISE	199 A	0.135	
A	D1	200-4C	(4) #30 AWG CU, (1) #6 AWG CU GND. IN 2" CONDUIT 75C RATED	199 A	0.462	
B	A	100-4C	(4) #3 AWG CU, (1) #8 AWG CU GND. IN 1-1/4" CONDUIT 75C RATED	67 A	0.491	



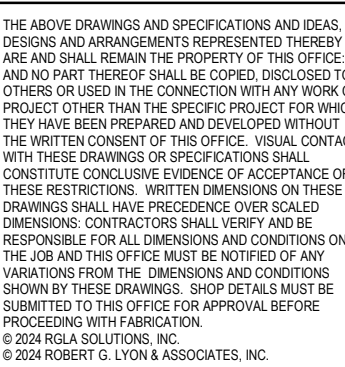
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JEREMY A. TOY
NUMBER
PE-2021044400
6/18/2025
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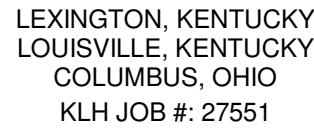
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SUMMIT WOODS CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

ELECTRIC POWER - SINGLE LINE DIAGRAM

DRAWN BY
DJR
CHECKED BY
MPR
JOB NUMBER
25303
SHEET NAME
E-300



ELECTRIC PANEL SCHEDULES



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PANEL SCHEDULE LEGEND

•	=	WIRE SIZED TO COMPENSATE FOR VOLTAGE DROP
*	=	REFER TO DRAWINGS FOR SPECIFICATIONS
#	=	NEW CIRCUIT TO EXISTING CIRCUIT BREAKER
(-)	=	CONNECT BRANCH CIRCUIT, WHICH WAS DISCONNECTED FROM ANOTHER SOURCE AS PART OF SELECTIVE DEMOLITION, TO POLE SPACE(S) INDICATED, DETERMINE EXACT POLE ASSIGNMENT(S) BASED ON EXISTING COLOR-CODING OF THE BRANCH CIRCUIT CONDUCTOR INSULATION. PROVIDE NEW BREAKER IF REQUIRED.
(A)	=	PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKER
(AG)	=	PROVIDE COMBINATION ARC FAULT (AFCI) / GROUND FAULT (GFCI) CIRCUIT INTERRUPTER CIRCUIT BREAKER
(AT)	=	EXISTING FUSIBLE SWITCH/CIRCUIT BREAKER WITH NEW FUSES/TRIP RATING
(B)	=	PROVIDE DRAW-OUT CIRCUIT BREAKER
(ERM)	=	PROVIDE ENERGY REDUCTION MAINTENANCE (REDUCED ENERGY) CIRCUIT BREAKER
(EX)	=	EXISTING CIRCUIT TO REMAIN

(F)	=	CIRCUIT FOR FUTURE USE. PROVIDE BREAKER INDICATED. LOAD SHOWN FOR REFERENCE ONLY.
(G)	=	PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER
(GF)	=	PROVIDE GROUND-FAULT EQUIPMENT PROTECTION (GFEPC) CIRCUIT BREAKER
(GS)	=	PROVIDE SPECIAL PURPOSE GROUND-FAULT CIRCUIT INTERRUPTER (SPGFCI) CIRCUIT BREAKER
(H)	=	PROVIDE HANDLE TIE
(L)	=	PROVIDE LOCK-ON DEVICE
(LI)	=	PROVIDE ELECTRONIC LONG AND INSTANTANEOUS ADJUSTABILITY
(LS)	=	PROVIDE ELECTRONIC LONG, SHORT, AND INSTANTANEOUS ADJUSTABILITY
(LSIA)	=	PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ALARM ADJUSTABILITY
(LSIG)	=	PROVIDE ELECTRONIC LONG, SHORT, INSTANTANEOUS, AND GROUND-FAULT ADJUSTABILITY
(LT)	=	PROVIDE LOCK-OUT/TAG-OUT DEVICE
(S)	=	SEE THE SINGLE LINE DIAGRAM / SCHEDULE FOR WIRE SIZE AND VOLTAGE DROP
(ST)	=	PROVIDE SHUNT TRIP CIRCUIT BREAKER

PANEL SCHEDULE GENERAL NOTES

A. PROVIDE HACR RATED BREAKERS ON ALL MOTOR LOADS.
B. ALL CONDUCTORS SHOWN ARE COPPER.
C. ALL VOLTAGE DROP CALCULATIONS SHALL BE BASED ON COMPENSATED WIRE SIZES ARE BASED ON RIGHT ANGLE CIRCUIT LENGTHS.
D. ACTUAL VOLTAGE DROP MAY VARY BASED ON INSTALLED WIRE LENGTH.
E. VOLTAGE DROP CALCULATIONS AND WIRE SIZES SHOWN IN THE PANEL SCHEDULES ARE FOR HOMERUN CONDUCTORS ONLY. FOR CIRCUITS WITH MORE THAN 1 DEVICE, THESE SIZES ASSUME THE CONDUCTORS DOWNSTREAM OF THE FIRST DEVICE WILL BE THE SAME SIZE AS THE FIRST DEVICE. IF THIS IS NOT THE CASE, IT HAS BEEN INDICATED ON THE DRAWINGS. VOLTAGE DROP TO THE FARTHEST DEVICE HAS BEEN CALCULATED TO NEVER EXCEED 5%.
F. PANEL LOADS CALCULATED AT 100% OF FIRST 10KVA, 50% OF REMAINDER. MOTOR LOADS CALCULATED AT 125% OF THE LARGEST MOTOR, 100% OF ALL OTHER MOTORS.



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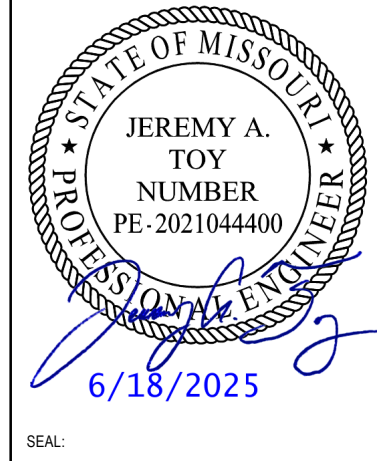
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carhartt
SUMMIT WOODS CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

ENERGY COMPLIANCE

DRAWN BY
DJR
CHECKED BY
MPR
JOB NUMBER
25303
SHEET NAME
E-400



COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO
Project Type: Alteration

Construction Site: 1744 NW CHIPMAN RD
LEES SUMMIT, MO 64081
Owner/Agent:
Designer/Contractor: KLH Engineers
1538 Alexandria Pike
Fort Thomas, KY 41075

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-FITTING ROOM AREA 2 (Retail:Dressing/Fitting Room)	168	0.50	84
2-SALES 1 (Common Space Types:Sales Area)	3741	1.59	5948
3-HALLWAY 3 (Common Space Types:Corridor/Transition <8 ft wide)	231	0.66	153
4-OFFICE 6 (Common Space Types:Office - Enclosed)	64	0.93	60
5-BREAK RM 7 (Common Space Types:Lounge/Breakroom)	134	0.62	83
6-STOCK ROOM 4 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	858	0.46	395
7-TOILET ROOM 5 (Common Space Types:Restrooms)	65	0.85	55
Total Allowed Watts =			6777

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
FITTING ROOM AREA 2 (Retail: Dressing/Fitting Room, 168 sq.ft.) M: M: HI BAY LIGHTING: Other:	1	4	35	140
SALES 1 (Common Space Types: Sales Area, 3740 sq.ft.) A: A: HI BAY LIGHTING: Other: Track Lighting: Wattage based on total luminaires	1 0	23 0	81 3512	1863 3512
HALLWAY 3 (Common Space Types: Corridor/Transition <8 ft wide, 231 sq.ft.) E: E: LINEAR LED: Other: E4E: E4E: LINEAR LED: Other:	1 1	3 1	45 45	135 45
OFFICE 6 (Common Space Types: Office - Enclosed, 64 sq.ft.) E4E: E4E: LINEAR LED: Other:	1	1	45	45
BREAK RM 7 (Common Space Types: Lounge/Breakroom, 134 sq.ft.) E: E: LINEAR LED: Other: E4E: E4E: LINEAR LED: Other:	1 1	1 1	45 45	45 45
STOCK ROOM 4 (Common Space Types: Storage >=50 - <=1000 sq.ft., 858 sq.ft.) E: E: LINEAR LED: Other: E4E: E4E: LINEAR LED: Other:	1 1	14 3	45 45	630 135

Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO
Data filename: Report date: 06/11/25
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A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
TOILET ROOM 5 (Common Space Types: Restrooms, 64 sq.ft.) E4E: E4E: LINEAR LED: Other:	1	1	45	45
Total Proposed Watts =			6640	

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the inspection Checklist.

Name - Title Signature Date

Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO
Data filename: Report date: 06/11/25
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COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO
Data filename: Report date: 06/11/25
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sq.ft. that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisledways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisledway independently and do not control lighting beyond the aisledway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2.1, C405.2.2.2 [EL21] ²	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO
Data filename: Report date: 06/11/25
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1, C405.2.3.2 [EL23] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.2 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Sidelit zones on first floor in Group A-2 and M occupancies.
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2.1 [EL28] ²	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C308.3, C408.2.5.2 [F117] ¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F118] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F116] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: 27551.00 - Carhartt - Summit Woods Crossing - Lee's Summit, MO
Data filename: Report date: 06/11/25
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OWNERSHIP OF INSTRUMENTS OF SERVICE
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operational. Verify zone control requirements in field prior to rough-in. Provide 100-hour carryover.

Occupancy Sensors, Dual Technology Wall Switches: Provide Wattstopper DW-100 wall switch (or equivalent) and configure as manual on, auto off (vacancy sensor) unless otherwise specified on drawings. Provide with time delay as specified on drawings. If no time delay is specified, program to 10 minutes.

Occupancy Sensors, Dual Technology Ceiling Sensors: Provide Wattstopper DT-300 ceiling mounted occupancy sensor (or equivalent). Provide with time delay as specified on drawings. If no time delay is specified, program to 20 minutes. Adjust sensitivity based on field conditions and occupancy of room to provide 100% coverage without nuisance tripping. Provide Wattstopper BZ-150 universal voltage pack(s) as required to properly power all occupancy sensors and provide switching per the design intent. In areas where multiple occupancy sensors control a single zone together, interlock occupancy sensors/power packs per manufacturer instructions to meet control intent.

26 24 16.00 – PANELBOARDS

Submittal Requirements

Product Data
For each provide bus configuration, current ratings, voltage ratings, SCCR Ratings, overcurrent protective device(s), surge suppression device(s), accessory, and components indicated. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, accessories, and finishes.

Subject to compliance with requirements, provide panelboard products of one of the following (for each type and rating of panelboard and enclosure): Square D Company, GE/ABB, Siemens, Eaton/Cutler-Hammer.

Panelboards shall bear UL labels for their specific applications. Panelboards shall be suitable for service voltage with number of branch circuits of capacity scheduled. Refer to the drawings for bussing material. Where copper is specified provide silver or tin plating. Unless otherwise indicated, panelboards and sections thereof, if any, shall have main-lugs-only of capacity equal to, or greater than, the rating or setting of the over the current protective device next back on the line. All circuit breaker panelboard bus assemblies shall be of the distributed (sequence) bussing type throughout, so that any 2 adjacent single pole breakers and/or spaces shall be replaceable by a 2-pole internal common trip breaker, and any 3 adjacent single pole breakers and/or spaces shall be replaceable by a 3 pole internal common trip breaker, 15 amp through 70 amp inclusive, without disturbing any other breaker. All panelboards shall be UL listed and labeled for use as service entrance equipment where being used as such.

208Y/120V panelboards shall be equal to Square D NQ with bolt-on branch breakers

All branch circuit breakers shall be full ambient compensated thermal magnetic molded case with quick-make and quick-break action and positive handle trip indication, both on manual and on automatic operation. Breakers shall be of the over-the-center toggle operating type with the handle going to a position between "on" and "off" to indicate automatic tripping. All breakers shall be bolt-on type.

All circuit breakers shall be full size. "Tandem" or "split" breakers shall not be permitted. All multi-pole breakers shall have internal common trip with all load side box lugs of one breaker in the same gutter. All circuit breakers shall have sealed cases to prevent tampering. All 15 and 20 ampere branch circuit breakers shall be UL Listed as SWD (switching duty). All 15-70 ampere branch circuit breakers shall be HACR Type. All GFCI circuit breakers shall be UL Class A with maximum threshold of 5 mA. All branch circuit breakers serving all ballasted (fluorescent/HID) lighting loads shall be HID rated.

Provide all electrical distribution related equipment with appropriately braced bussing and properly rated breakers, fuses, etc. for the available fault currents. In existing buildings where fault current values are not indicated on drawings, coordinate with existing "upstream" distribution equipment provide equipment SCCR to meet or exceed same.

Provide barriers around any energized phase busbar or terminal supplied from a feeder tap, transformer, or service entrance conductors.

Fill out panelboard's circuit directory card upon completion of installation work. Directories shall be neatly typewritten. All panelboard directories shall include the actual room names/numbers that are selected for interior signage/designation.

All recessed panelboards shall be provided with a minimum of three 1-1/4" empty conduits terminated to a single 12" X 12" X 6" deep junction box above accessible ceiling.

26 27 26.00 - WIRING DEVICES

Submittal Requirements

Product Data
For each type include electrical characteristics, configurations, ratings, markings, colors, etc.

Unless specifically indicated otherwise, or directed otherwise in field, coordinate finishes for wiring devices with architect and owner prior to ordering. Where applicable, devices on different branches of power shall be a different color.

Provide grounded ("neutral") conductors in all wall switch, dimmer and other lighting control outlet boxes, even if not immediately utilized.

Provide wall plates with engraved legends where indicated on drawings and/or where required per 26 05 53.00 -

IDENTIFICATION FOR ELECTRICAL SYSTEMS Section. All device wall plates shall be standard size; "midway", "oversized" ("jumbo") or "extra deep" wall plates shall not be acceptable. Construct with metal screws for securing plates to devices; screw heads colored to match finish of plates. Except where/if indicated otherwise on drawings, wall plates in finished areas shall be commercial specification grade, satin finish stainless steel, with beveled edges, equal to Leviton Type 430 series. Wall plates in unfinished areas shall be galvanized steel unless otherwise noted. Refer to architectural finish schedules and owner representative for additional information.

Wall-Box Type Lighting Controls:
Refer to specification 260923.00 – Local Lighting Controls for types not listed here.

Toggle Switches:
Provide toggle switches equal to Leviton #122x-2 series in configurations shown on the drawings. Provide switches that are flush, self-grounding with green ground screw, back and side wired, and specification grade. 120/277V, 20A, AC quiet type.

Receptacles:

Special purpose receptacles shall be of the size, type and manufacturer as indicated on the plans or as determined in field.

Weather Resistant (WR) GFCI Receptacles: Provide for all receptacles installed in damp or wet locations. Any receptacle shown on the drawings with "WPI/GFCI" next to it denoting exterior cover shall be installed with a WR GFCI receptacle. Provide duplex weather resistant receptacles equal to Leviton # W7899 series. Provide Weather-Resistant Receptacles with UL "WR" marking. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents.

Self-Grounding Commercial Specification grade, Duplex Receptacles, Ground-Fault Circuit Interrupters: Feed-thru type, capable of protecting connected downstream receptacles on single circuit, grounding type UL-rated 943, Class A, Group 1, specification grade, 20-amperes rating (device and feed-thru), 125-volts, 60 Hz; with solid-state ground-fault sensing and signaling (maximum threshold of 5mA at 0.025 seconds maximum); equip with 20-ampere plug configuration, NEMA 5-20R. Provide ground fault circuit interrupter duplex receptacles equal to Leviton #8898 series. For receptacle circuits protected with 15A breakers, provide NEMA 5-15R equivalents. Where GFCI protected receptacles are shown on drawings, provide a separate GFCI receptacle for each one shown. Do not feed downstream receptacles from load-side (GFCI-protected) terminals of upstream receptacles.

26 51 00.00 - LIGHTING

Submittal Requirements

Product Data
For each type include detailed product information, light source, color temperature, color rendering index, lumen outputs, life, driver manufacturer, model and type, ceiling connection details, integral controls as applicable, drawings of custom fixtures, components, wiring diagrams, warranty, etc. Arrange luminaire submittals in booklet form with separate sheets for each luminaire, assembled by luminaire "type" in alphabetical order.

All recessed luminaires shall be equipped with necessary plaster frames and surface trim.

All junction boxes and serviceable components for recessed luminaires shall be readily accessible for service or replacement from below the ceiling, without removing any ceiling components (other than tiles).

All luminaires utilized for emergency and/or egress lighting shall be connected ahead of switching. All drivers of the same type shall be of the same manufacturer and catalog number. All LED modules of the same type shall be of the same manufacturer and catalog number.

Light Emitting Diode (LED) Systems: Provide factory installed LED modules that are specifically designed for, and matched and mated to, the respective luminaire in which they are used. Provide LED modules that can easily be replaced in the field and are readily accessible for replacement. Provide color temperature as indicated in Luminaire Schedule. Provide factory installed driver(s) for the LED source utilized that are specifically coordinated to the LED source and luminaire in which they are used. Provide driver(s) having specific operating characteristics defined in the Luminaire Schedule. Provide driver(s) that can easily be replaced in the field and are readily accessible for replacement. Provide specification sheet for the specific driver as part of the Luminaire Submittal. Provide Total Harmonic Distortion (THD) rating of less than 20 percent. Provide factory-installed integral filtering system to ensure THD does not exceed 20 percent regardless of quantities and/or mixes with other manufactured LED systems.

All surface and recessed ceiling luminaires installed on grid or tile ceilings shall be installed to agree with module of ceiling either displacing a tile, or unit on center of tile, or centered on grid lines.

Provide luminaires and/or luminaire outlet boxes with hangers to properly support luminaire weight. All luminaires installed in or on suspended ceiling systems shall be anchored directly to the building structural system above. Such anchoring shall be independent of the ceiling support system. All luminaires shall be installed plumb and level. Support surface mounted luminaires greater than 2 feet in length at a point in addition to the outlet box luminaire stud.

Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting aimable luminaires to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this

purpose. Some of this work may be required after dark. Adjust aimable luminaires in the presence of Owner's Representative and Design Professionals.



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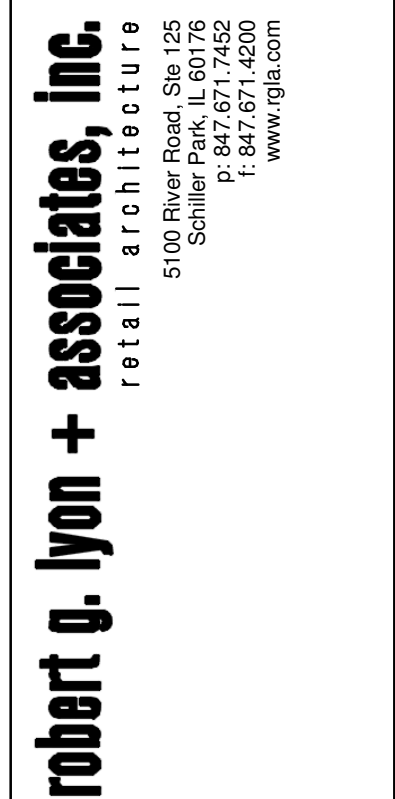
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NO.	REVISIONS:	DATE:
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carhartt
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ELECTRICAL
SPECIFICATIONS

DRAWN BY
DJR
CHECKED BY
MPR
JOB NUMBER
25303
SHEET NAME
E-501



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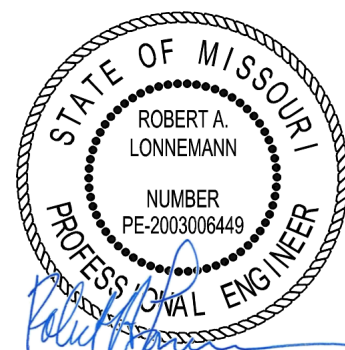
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MECHANICAL COVER
SHEET

DRAWN BY

CHECKED BY
AJK

JOB NUMBER

25303

SHEET NAME

M-001

STANDARD HVAC ABBREVIATIONS

AV	AUTOMATIC AIR VENT	HA	HEAD	RO	REVERSE OSMOSIS
ACCESS	ACCESSORIES	HOA	HAND/OFF/AUTOMATIC	RPM	REVOLUTIONS PER MINUTE
AD	ACCESS DOOR	HP	HORSEPOWER	RS	REFRIGERANT SUCTION
AF	ABOVE FINISHED FLOOR	HPR	HIGH PRESSURE RETURN	SA	SUPPLY AIR
AMP	AMPERE	HST	(STEAM CONDENSATE)	SAT	SUPPLY AIR TEMPERATURE
AP	ACCESS PANEL	HSTAT	HUMIDISTAT	SC	SHADING COEFFICIENT
APD	AIR PRESSURE DROP	HTG	HEATING	SCD	SMOKE CONTROL DAMPER
AR	AIR CONDITIONING AND REFRIGERATION INSTITUTE	HTR	HEATING HOT WATER RETURN	SD	SMOKE DETECTOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	HWS	HEATING HOT WATER SUPPLY	SENS	SENSIBLE HEAT
BA	BUILDING AUTOMATION SYSTEM	HVZ	HERTZ	SP	STATIC PRESSURE
BD	BACKDRAFT DAMPER	IO	INPUT/OUTPUT	TAB	TESTING, ADJUSTING, BALANCING
BHD	BRAKE HORSEPOWER	IAQ	INDOOR AIR QUALITY	TCH	TOTAL DYNAMIC HEAD
BTU	BRITISH THERMAL UNIT	IN HG	INCHES OF MERCURY	TDS	TOTAL DISSOLVED SOLIDS
BTUH	BRITISH THERMAL UNIT PER HOUR	IN WC	INCH WATER COLUMN	TSP	TOTAL STATIC PRESSURE
CD	CILING DIFFUSER	IN WG	INCH WATER GAUGE	TSSTAT	THERMOSTAT
CFM	CUBIC FEET PER HOUR	IP	INTERLOCKED PART LOAD VALUE	UL	UNDERWRITERS LABORATORY
CFM	CUBIC FEET PER MINUTE	IPST	INSTALLED	VAV	VARIABLE AIR VOLUME
CHWR	CHILLED WATER RETURN	KW	KILOWATT	VFD	VARIABLE FREQUENCY DRIVE
CHWS	CHILLED WATER SUPPLY	KWH	KILOWATT HOUR	WG	WET-BULB (TEMPERATURE)
CI	CAST IRON	LA	LEAVING AIR TEMPERATURE	W	WATER GAGE
CLG	COOLING	LBS/HR	POUNDS PER HOUR	WPD	WATER SIDE PRESSURE DROP
CO	CARBON MONOXIDE	LF	LINEAR FOOT (FEET)	WIRE	WIRED
CO2	CARBON DIOXIDE	LFR	LOW PRESSURE RETURN		
COP	COEFFICIENT OF PERFORMANCE		(STEAM CONDENSATE)		
CV	CONSTANT VOLUME	LPS	LOW PRESSURE STEAM		
CWR	CONDENSER WATER RETURN	LWT	LEAVING WATER TEMPERATURE		
CWS	CONDENSER WATER SUPPLY	MAX	MAXIMUM		
DB	DECI BELS	MBH	1000 BTUH		
DB	DRY-BULB TEMPERATURE	MCA	MINIMUM BRANCH CIRCUIT AMPACITY		
DC	DISCONNECT	MERV	MINIMUM EFFICIENCY REPORTING VALUE		
DDC	DIGITAL DIRECT CONTROLS	MIN	MINIMUM		
DEG	DEGREE DELTA (CHANGE IN TEMPERATURE)	MOD	MOTOR OPERATED DAMPER		
DI	DIAMETER	MPR	MEDIUM PRESSURE RETURN		
DIW	DIAMETER WATER		(STEAM CONDENSATE)		
DP	DEW POINT TEMPERATURE	MPS	MEDIUM PRESSURE STEAM		
DX	DIRECT EXPANSION	MRI	MAGNETIC RESONANCE IMAGING		
EA	EXHAUST AIR	MVD	MANUAL VOLUME DAMPER		
EAT	ENTERING AIR TEMPERATURE	NA	NOT APPLICABLE		
ER	ENERGY EFFICIENCY RATIO	NC	NOISE CRITERIA		
EG	EXHAUST GRILLE	NC	NORMALLY CLOSED		
EMERG	EMERGENCY POWER	NO	NORMALLY OPEN		
ESP	EXTERNAL STATIC PRESSURE	NTS	NOT TO SCALE		
EW	ENTERING WATER TEMPERATURE	OA	OUTSIDE AIR		
EX	EXISTING	OC	OVER CURRENT PROTECTION		
F	FAHRENHEIT	PD	PRESSURE DROP		
F&T	FLOAT AND THERMOSTATIC	PPM	PARTS PER MILLION		
FA	FREE AREA	PRS	PRESSURE REGULATING (VALVE) STATION		
FDV	FIRE DAMPER	PR	PRESSURE REGULATING VALVE		
FMA	FULL LOAD AMPERES	PSI	POUNDS PER SQUARE INCH		
FLM	FEET PER MINUTE	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE		
FPM	FEET PER SECOND	PSIG	POUNDS PER SQUARE INCH - GAGE		
FT	FEET	RA	RETURN AIR		
FURN	FURNISHED	RA	RETURN AIR TEMPERATURE		
GA	GAUGE	REL	RELATIVE HUMIDITY		
GAL	GALLONS	RL	REFRIGERANT LIQUID LINE		
GPM	GALLONS PER MINUTE	RLA	RUN LOAD AMPERE		



MECHANICAL LEGEND

SYMBOL	DESCRIPTION
--------	-------------







PLAN-VIEW LINE TYPES

_____	WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
_____	WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK


MECHANICAL AIR DEVICES

SR 	SUPPLY REGISTER
CD 	CEILING DIFFUSER

MECHANICAL DUCTWORK

	UP	SUPPLY DUCT WITH ELBOW TURNED UP
	DN	SUPPLY DUCT WITH ELBOW TURNED DOWN
	UP	RETURN DUCT WITH ELBOW TURNED UP
	DN	RETURN DUCT WITH ELBOW TURNED DOWN
	UP	EXHAUST DUCT WITH ELBOW TURNED UP
	DN	EXHAUST DUCT WITH ELBOW TURNED DOWN

MECHANICAL DUCTWORK ACCESSORIES

	DUCT WITH MANUAL VOLUME DAMPER
	DUCT MOUNTED SMOKE DETECTOR (HARD WIRE INTERLOCK TO FAN MOTOR BY E.C.) FURNISHED BY E.C., INSTALLED BY M.C.

MECHANICAL STATS & SENSORS

(TS)	TEMPERATURE SENSOR
(T)	LOW VOLTAGE THERMOSTAT
(L)	LINE VOLTAGE THERMOSTAT

MECHANICAL MISCELLANEOUS


	CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)
---	--



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MECHANICAL DUCTWORK PLAN

DRAWN BY	NMS
CHECKED BY	AJK
JOB NUMBER	25303
SHEET NAME	M-101

HVAC DEMOLITION GENERAL NOTES

A. REMOVE EXISTING DUCTWORK, CONTROLS, AND MISCELLANEOUS HVAC EQUIPMENT NOT INTENDED FOR REUSE. FIELD VERIFY THE EXACT SCOPE PRIOR TO BID. COORDINATE ALL DEMOLITION WORK WITH THE LANDLORD AND GENERAL CONTRACTOR.

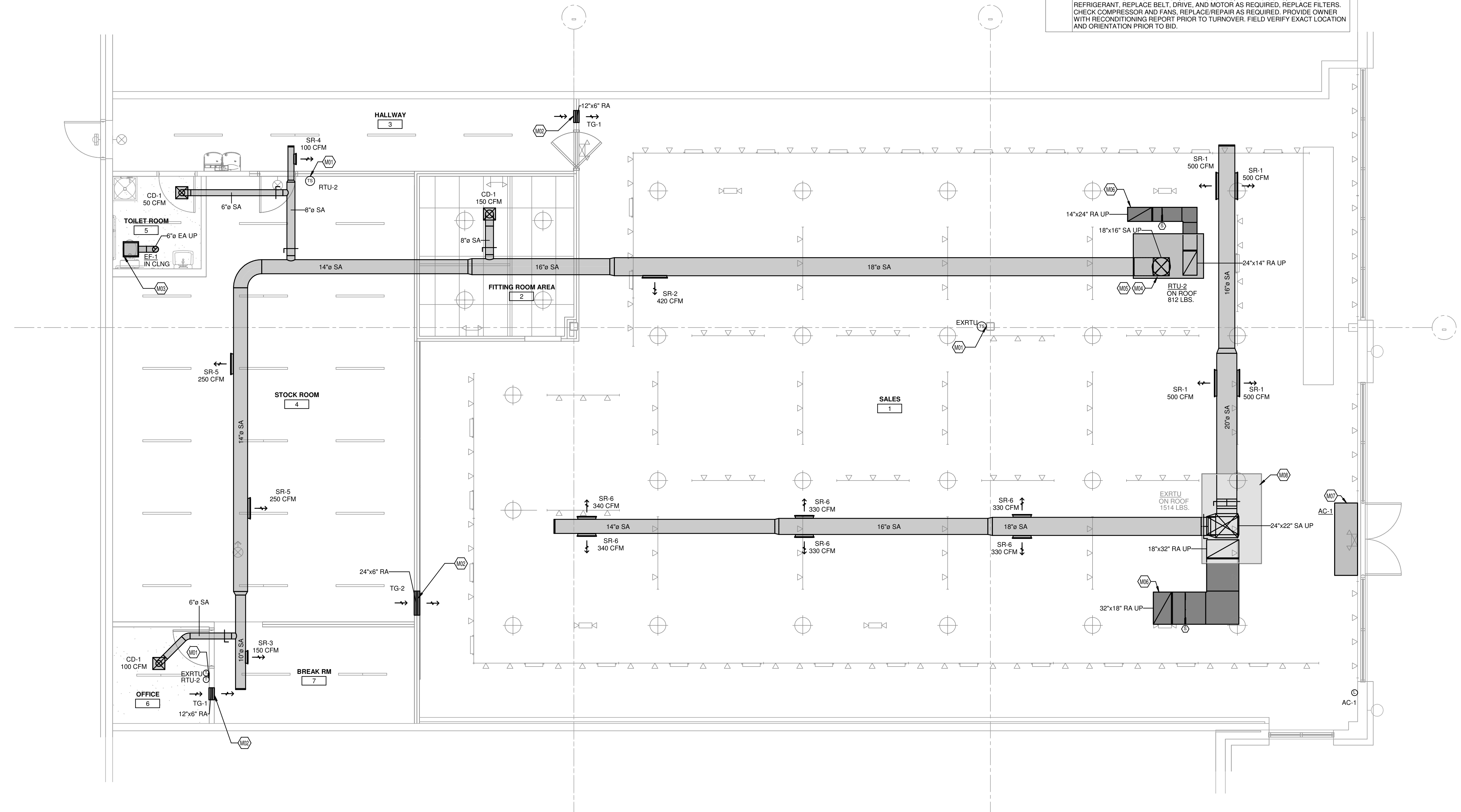
FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

KEYED NOTES	
M01	PROVIDE NEW PROGRAMMABLE THERMOSTATS IN BACK OFFICE AREA WITH NEW REMOTE SENSORS RELOCATED TO LOCATIONS INDICATED ON PLANS. COORDINATE EXACT LOCATION WITH ARCHITECT AND SALES RACKS PRIOR TO INSTALLATION. REWIRE TO ROOFTOP UNIT PER MANUFACTURER'S PRINTED INSTRUCTIONS.
M02	PROVIDE TRANSFER OPENING FULLY ABOVE 13'-0" IN WALL. EQUIVALENT SIZE AS NOTED IN SCHEDULES.
M03	PROVIDE NEW CEILING MOUNTED EXHAUST FAN WITH INTEGRAL BACKDRAFT DAMPER AS SCHEDULED. BALANCE TO THE SCHEDULED AIRFLOW. EXTEND EXHAUST THROUGH ROOF AND TERMINATE WITH VENT CAP. MAINTAIN A MINIMUM OF 10'-0" FROM ANY BUILDING INTAKE. LANDLORD APPROVED ROOFING CONTRACTOR TO PERFORM ALL ROOF WORK AT THE GENERAL CONTRACTOR'S EXPENSE.
M04	PROVIDE AND BALANCE NEW ROOFTOP UNIT AS SCHEDULED. PROVIDE NEW MANUFACTURER'S ROOF CURB. MAINTAIN ALL CODE AND MANUFACTURER REQUIRED CLEARANCES. OUTSIDE AIR INTAKE SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FLUE OR BUILDING EXHAUST. ALL ROOF WORK TO BE DONE BY A LANDLORD APPROVED ROOFING CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE.
M05	PROVIDE PVC CONDENSATE TAILPIECE PER DETAIL AND TERMINATE AT ROOF.
M06	COVER OPEN END OF RETURN DUCT WITH 1" MESH HARDWARE CLOTH IN A REMOVABLE METAL FRAME AND ELBOW UP FOR SOUND ATTENUATION.
M07	PROVIDE NEW WALL MOUNTED, ELECTRIC HEAT AIR CURTAIN AT 12'-0" A.F.F.. INSTALL PER MANUFACTURER'S PUBLISHED INSTRUCTIONS. AIR CURTAIN SHALL INCLUDE MANUAL OVERRIDE OUT OFF SWITCH, INTERLOCK WITH DOOR SWITCH AND PROVIDE LINE VOLTAGE THERMOSTAT WITH TIME DELAY RELAY.
M08	EXISTING ROOFTOP UNIT TO REMAIN. BALANCE TO THE SCHEDULED AIRFLOW. CLEAN AND VERIFY PROPER OPERATION; CLEAN COOLING, HEATING COILS. RECHARGE REFRIGERANT, REPLACE BELT, DRIVE, AND MOTOR AS REQUIRED, REPLACE FILTERS. CHECK COMPRESSOR AND FANS, REPLACE/REPAIR AS REQUIRED. PROVIDE OWNER WITH RECONDITIONING REPORT PRIOR TO TURNOVER. FIELD VERIFY EXACT LOCATION AND ORIENTATION PRIOR TO BID.



1 MECHANICAL PLAN - LEVEL 1
1/4" = 1'-0"

OWNERSHIP OF INSTRUMENTS OF SERVICE
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ENERGY COMPLIANCE

DRAWN BY	NMS
CHECKED BY	AJK
JOB NUMBER	25303
SHEET NAME	M-401



COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Carhartt- Lee's Summit
Location: Lees Summit, Missouri
Climate Zone: 4a
Project Type: Alteration

Construction Site: 1744 NW Chipman Road
Lee's Summit, Missouri 64081
Owner/Agent:
Designer/Contractor: KLH Engineers
153
Fort Thomas, Kentucky 41075

Mechanical Systems List
QuantitySystem Type & Description

1 RTU-2: (Single Zone w/ PerimeterSystem):
Heating: 1 each - Central Furnace, Gas, Capacity = 65 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Packaged Terminal Unit, Capacity = 50 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency = 9.50 EER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
Fan System: RTU-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
SUPPLY Supply, Constant Volume, 1470 CFM, 0.8 motor nameplate hp, 67.0 fan efficiency grade, 80.0 total fan efficiency, 70.0 design fan efficiency

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date
Project Title: Carhartt- Lee's Summit Data filename: Report date: 06/10/25 Page 1 of 10		

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
Project Title: Carhartt- Lee's Summit Data filename: Report date: 06/10/25 Page 4 of 10		



COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
Project Title: Carhartt- Lee's Summit Data filename: Report date: 06/10/25 Page 2 of 10		

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ¹	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.4 [ME142] ¹	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.8.5 [ME143] ¹	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.12.1 [ME71] ¹	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.3 [ME73] ¹	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.5 [ME113] ¹	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 [ME59] ¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4, Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.1 [ME59] ¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.2 [ME115] ¹	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.6 [ME141] ¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms; Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.4 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2 C403.12.3 [FO9] ¹	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116] ¹	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.11.1 C403.11.2 [ME60] ¹	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME62] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off integrated economizer control, and provide a means to relieve excess outside air during operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3 3 [ME124] ¹	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3 4 [ME125] ¹	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3 5 [ME126] ¹	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1 4 [ME63] ¹	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45°F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60°F and cooling setpoint >= 80°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.3.3 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2 1 [ME53] ¹	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123] ¹	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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OWNERSHIP OF INSTRUMENTS OF SERVICE
The Consultant shall retain the ownership of the instruments of service. All data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright thereto.

Additional Comments/Assumptions:

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High Impact (Tier 1)

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Medium Impact (Tier 2)

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Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.3, C408.2.5.3 [F18] ¹	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 [F127] ¹	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F47] ¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.2 [F138] ¹	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.3 [F120] ¹	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2 [F139] ¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.1, C403.2.4.2.2 [F140] ¹	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.3 [F41] ¹	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.1 [F128] ¹	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.1 [F131] ¹	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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High Impact (Tier 1)

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Medium Impact (Tier 2)

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Low Impact (Tier 3)

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] ¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 [EL27] ¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28] ¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ¹	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1

High Impact (Tier 1)

2

Medium Impact (Tier 2)

3

Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.2 [F10] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.3 [F132] ¹	Economizers have been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.4 [F129] ¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F17] ¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.3 [F143] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.4 [F130] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1

High Impact (Tier 1)

2

Medium Impact (Tier 2)

3

Low Impact (Tier 3)

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SUMMIT WOODS CROSSING
1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

ENERGY COMPLIANCE

DRAWN BY

NMS

CHECKED BY

AJK

JOB NUMBER

25303

SHEET NAME

M-402

OWNERSHIP OF INSTRUMENTS OF SERVICE
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SECTION 23 05 01.00 – COMMON REQUIREMENTS FOR HVAC

General
General Provisions of the Contract including General and Supplementary Conditions and General Requirements apply to work of this section.
Scope

The base bid includes furnishing all materials, labor, tools, and equipment and the performance of all work required to install a complete heating and air conditioning system as outlined herein.
Guarantee

The contractor shall provide a guarantee in written form stating that all work under this section shall be free of defective work, materials, or parts for a period of one year from the date of owner's final acceptance and shall repair, revise or replace at no cost to the owner any such defects occurring within the guarantee period. Contractor shall also state in written form that any items or occurrences arising during the guarantee period will be attended to in a timely manner and will in no case exceed four (4) working days from date of notification by owner.
Quality Assurance

Provide a complete installation in conformance with the following standards.

AGA: American Gas Association
ASHRAE: American Society of Heating, Refrigerating and Air Conditioning Engineers

NFPA: National Fire Protection Association
SMACNA: Sheet Metal and Air Conditioning Contractors National Association

Statewide Building Code
IMC: International Mechanical Code

Permits, Fees, Inspections, Laws and Regulations
Permits and fees of every nature required in connection with this work shall be obtained and paid for by this contractor who shall also pay for all the installation fees and similar charges. Laws and regulations, which bear upon or affect the various branches of this work shall be complied with by this contractor and are hereby made a part of this contract. All work, which such laws require to be inspected, shall be submitted to the proper public official for inspection and a certificate of final approval must be furnished.

Work in Existing Spaces
General: Care shall be taken when working in existing spaces so as not to damage existing walls and ceilings where work is being performed.

Ceilings: Where work is being performed above ceilings, and the architectural drawings do not indicate ceiling modifications by the general contractor, it shall be the responsibility of this contractor to remove and replace existing ceilings where work is being performed. In those instances, all repair and installation of new grid, ceiling panels, etc shall be the responsibility of this contractor. Match existing finishes.

Walls & Floors: It shall be the responsibility of this contractor to patch existing walls and floors and match existing finishes where work is being removed or installed and patching is being performed, unless noted otherwise on the architectural drawings.

Demolition
Any Equipment to be demolished shall also include the demolition of any and all ductwork, piping etc serving or served by the equipment, all accessories, air devices, wiring, gas piping, venting, control wiring and power wiring associated with the equipment.

Demolition shall be coordinated with all trades. All materials shall be turned over to the owner or disposed at the owner's direction.

Contractor is responsible for reclaiming any refrigerant in association with the demolition in accordance with all local, state and federal regulations.
Any roof or wall penetration shall be patched watertight to the satisfaction of the architect.

Tests and Adjustments
No ducts, piping, fixtures or equipment shall be concealed or covered until they have been inspected and approved by the Architect and the inspector who shall be notified by the contractor when the work is ready for inspection. Work shall be completely installed, tested and leak tight before inspection is required. All tests shall be repeated to the satisfaction of those making the inspection.

Architectural coordination items
Cutting and Patching: Cut and drill all openings in walls and floors required for the installation. Secure approval of Engineer before cutting and drilling. Neatly patch all openings out.

Fire Caulking: Patching through fire rated walls and enclosures shall not diminish the rating of that wall or enclosure. Patch shall be equal to rockwool, firestop, caulk or approved "rated" patch.

Access Panels and Pathways: Furnish all access panels required for proper servicing of equipment. Provide access panels for all concealed valves, vents, controls, cleanout doors, and sprinkler devices required by NFPA.

Provide access panels for all fire and/or fire & smoke dampers. Provide frames as required for finish. Furnish panels to General Contractor. Exact locations to be approved by the Architect. Minimum size to be 12" x 12", units to be 16 gauge steel, locking device shall be screwdriver cam locks.

project conditions
Where new HVAC systems are required to be connected to existing HVAC systems, it is the contractor's responsibility to verify the location, size, pressure, condition, and they shall verify that the existing HVAC system is indeed the correct and appropriate HVAC system before any work is done. Provide all necessary camera scoping and dye testing as necessary. If there is any need for concern, if it is determined that the existing HVAC system is not a correct or appropriate HVAC system or not connected to a correct or appropriate HVAC system, if the condition of the existing HVAC system is not viable for re-use, or any other condition that would not allow the proper functioning of the new HVAC system, the contractor shall notify the engineer in writing immediately via RFI and wait for direction before proceeding.
DELEGATED DESIGN

For equipment supports, this contractor shall retain a qualified professional engineer to provide support calculations of static and dynamic loading due to operating equipment weight. The signed and sealed calculations and details shall be submitted by the retained professional engineer.

MECHANICAL EQUIPMENT COMMON REQUIREMENTS

INSPECTION
Examine areas and conditions under which mechanical equipment is to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to installer.

Uncrate equipment and inspect for damage. Verify that nameplate data corresponds with unit designation.
INSTALLATION

General: Install mechanical equipment as indicated, and in accordance with manufacturer's installation instructions.

Location: Install each unit level/plumb and accurately in position indicated in relation to other work; and maintain sufficient clearance for normal service and maintenance, but in no case less than that recommended by manufacturer.

Coordinate with other trades to assure correct recess size for recessed units.

Protect interior mechanical equipment with protective covers during balance of construction.

For ducted equipment, connect ductwork to units with flexible duct connections. Provide transitions to exactly match unit duct connection size. Provide 1" acoustic duct lining on return air side a minimum of 10' from fan. Provide trap at drain piping connection to unit sized per manufacturer's recommendations.

Access: Provide access space around and over mechanical equipment for service as indicated, but in no case less than that recommended by manufacturer or required by code in effect.

Access Panels: Furnish all access panels required for proper servicing of equipment. Provide access panels for all concealed valves, vents, controls and cleanout doors, and sprinkler devices required by NFPA. Provide frame as required for finish. Furnish panels to General Contractor. Exact locations to be approved by the Architect. Minimum size to be 12" x 12", units to be 16 gauge steel, locking device shall be screwdriver cam locks.

Rooftop mechanical equipment shall be installed a minimum of 10'-0" from any roof edge regardless of location indicated on plans, unless a screen wall or railing is installed per the local building code. See the architectural plans for coordination.

Roof Curbs: Furnish roof curbs to roofing installer for installation. Install and secure roof curb to roof structure, in accordance with National Roofing Contractor's Association (NRCA) installation recommendations and shop drawings. Install and secure units on curbs and coordinate roof penetrations and flashing. Install according to roofing manufacturer's recommendation and specifications.

Rooftop supports: Provide rooftop equipment rails for mechanical equipment located on the roof that spans two or more bar joists. Verify roof structure, mounting supports, and membrane installations are completed to the proper point to allow installation of roof mounted units.

ELECTRICAL COORDINATION ITEMS
Electrical Wiring: Install electrical devices furnished by manufacturer but not specified to be factory-mounted. Furnish copy of manufacturer's wiring diagram submittal to Electrical Installer.

Verify that electrical wiring installation is in accordance with manufacturer's submittal and installation requirements of Division 26 sections. Do not proceed with equipment start-up until wiring installation is acceptable to equipment installer.

Install electric heating terminal units including components in accordance with equipment manufacturer's written instructions, and with recognized industry practices, complying with applicable installation requirements of NEC and NECA's "Standard of Installation".

Tighten connectors and terminals, including screws and bolts, in accordance with equipment manufacturer's published torque tightening values for equipment connectors. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL Std 486A.

Grounding: Provide equipment grounding connections for electric heating terminals as indicated. Tighten connections to comply with tightening torque values specified in UL Std 486A to assure permanent and effective grounding.

FIELD QUALITY CONTROL
Testing: After installation has been completed, test to demonstrate proper operation of mechanical equipment at performance requirements specified. When possible, field correct malfunctioning units, then retest to demonstrate compliance. Replace units, which cannot be satisfactorily corrected. Test controls and demonstrate compliance with requirements.

Cleaning: After construction is completed, including painting, clean unit exposed surfaces, vacuum clean coils and inside of cabinets. Clean factory-finished surfaces. Repair any marred or scratched surfaces with manufacturer's touch-up paint.

START-UP
Provide the services of a factory-authorized service representative to start-up rooftop units, in accordance with manufacturer's written start-up instructions. Test controls and demonstrate compliance with requirements. Replace damaged or malfunctioning controls and equipment.

TRAINING OF OWNER'S PERSONNEL
Provide services of manufacturer's technical representative for 1-half day to instruct Owner's personnel in operation and maintenance of units. Schedule training with Owner, provide at least 7-day notice to Contractor and Engineer of training date.

SPARE PARTS
Provide one complete extra set of filters for each unit. Install new filters at completion of system and prior to testing, adjusting, and balancing work. Obtain receipt from Owner that new filters have been installed.

SEISMIC BRACING AND SUPPORT OF SYSTEMS AND COMPONENTS
Seismic restraint designer shall coordinate all attachments with the structural engineer of record. Provide engineered stamped and signed drawings of seismic design.

Seismic restraint designer shall provide visual inspection after installation and approval installation of seismic design components.

Design analysis shall include calculated dead loads, static seismic loads, and capacity of materials utilized for the connection of the equipment or system to the structure.

Analysis shall detail anchoring methods, bolt diameter, and embedment depth.

All seismic restraint devices shall be designed to accept without failure the forces calculated per the applicable building code.

Friction from gravity loads shall not be considered resistance to seismic forces.

Fire protection systems shall meet the requirements of NFPA-13 and NFPA-14 for the building seismic requirements.

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Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specification compliant appearance is available from KLH upon request. It is also downloadable from the KLH website at www.klhengrns.com.

Include an index: The index shall enumerate the contents of the submittal.

Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. Do not send half the product data on one submittal and the other half as a separate one. When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 – Original submission, 01 – First Resubmission, 02 – Second Resubmission, etc.). Resubmittals shall include a copy of the reviewer's comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The absence of this on resubmittal is cause for rejection.

Name electronic files to match the submittal ID and cover sheet. The electronic file name of submittals shall match the submittal ID included on the submittals cover page. For example: The original/first product data submittal for Section 234116 would be labeled as "234116.00-PD-00"; the first resubmittal of same shall be labeled "234116.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "234116.00-SD-00"; the first resubmittal of same shall be labeled "234116.00-SD-01".

Use of Electronic Drawings from the Owner's Design Team
Plan drawings for the Project were created with AutoCAD and Revit.

If expressly permitted by the Owner and the terms of the Contract, editable electronic versions of standard-scale, AutoCAD-based plan drawings may be made available for the creation of shop and as-built drawings.

Due to the proprietary nature of internal design systems, editable native-software versions of some drawings, including but not limited to system diagrams and details will not be made available in an editable form. In these cases, electronic versions of the drawings may be made available only in PDF, JPG or similar non-editable electronic form, at the sole discretion of the Design Professional.

The Request Drawings form can be accessed, filled out and submitted at the following internet address (scroll down to bottom of home page): <http://www.klhengrns.com>.

SEISMIC BRACING AND SUPPORT OF SYSTEMS AND COMPONENTS
Seismic restraint designer shall coordinate all attachments with the structural engineer of record. Provide engineered stamped and signed drawings of seismic design.

Seismic restraint designer shall provide visual inspection after installation and approval installation of seismic design components.

Design analysis shall include calculated dead loads, static seismic loads, and capacity of materials utilized for the connection of the equipment or system to the structure.

Analysis shall detail anchoring methods, bolt diameter, and embedment depth.

All seismic restraint devices shall be designed to accept without failure the forces calculated per the applicable building code.

Friction from gravity loads shall not be considered resistance to seismic forces.

Fire protection systems shall meet the requirements of NFPA-13 and NFPA-14 for the building seismic requirements.

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balanced in accordance with the referenced standards; are an accurate representation of how the systems have been installed; are a true representation of how the systems are operating at the completion of the testing, adjusting, and balancing procedures; and are an accurate record of all final quantities measured, to establish normal operating values of the systems. Final Report: Upon verification and approval prepare final reports, type written, and organized and formatted as specified below. Submit 2 complete sets of final report to the landford.

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Supply ductwork exposed in conditioned spaces excluding mechanical rooms, server rooms and electric equipment rooms
Toilet exhaust, general exhaust and return ductwork in an insulated joist or attic space.

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boxes, wiring, etc.) in accordance with Electrical Specifications requirements. All conduit shall be 3/4" minimum.
Coordinate all thermostat/sensor locations in field (case by case) with Architect, Owner and Electrical Contractor to ensure that they are placed in locations that will not interfere with furniture, equipment, artwork, wall-hung specialties, room finishes, etc. All thermostat/sensor wall locations indicated on HVAC drawings are schematic only and must be verified case-by-case prior to rough-in.
All electrical work as described on the drawings shall be per the latest edition of the National Electrical Code (NEC) and per applicable state and local codes.
Where "free-air" installation methods (either exposed above the ceilings, in bridge rings or in cable trays) are permitted under Electrical Specifications above ceilings, provide plenum-rated cables wherever plenum cables (if any) exist and install as indicated on the drawings.
Specifications. Install low voltage circuits, located in concrete slabs and masonry walls, in inaccessible locations, or exposed in occupied areas, in electrical conduit regardless of what wiring methods are permitted under Electrical Specifications.
Where cable trays or bridge rings are provided by the electrical contractor for low voltage cables, these raceways may be utilized for control wiring by this contractor (provide special color coded jackets, label cable jackets per Electrical Specifications and group control wiring cables together). Provide conduit drops from cable tray/bridge ring paths to wall outlet boxes and equipment unless directed otherwise under Electrical Specifications.
Regardless of permitted methods in Electrical Specifications, all cables/wiring installed concealed by gypsum board, masonry or other inaccessible materials in walls or above ceilings shall be installed in conduit, 3/4" minimum.
All conduit, bridge rings, raceway, outlet boxes, etc. necessary for complete operational installation of control wiring shall be provided (furnished and installed) by the temperature control contractor in strict compliance with Electrical Specifications documents. Coordinate all work with all other applicable trades including the electrical contractor.
Provide all required conduit work to and between equipment in a manner compliant with that described above (i.e. between VAV boxes, to boilers, starters, condensing units, etc. as applicable).
Install control wiring without splices between terminal points, color-coded. Install in neat workmanlike manner, securely fastened. Install in accordance with National Electrical Code and per Electrical Specifications.
Install circuits over 25 volt with color-coded No. 12 wire in electrical metallic tubing, per Electrical Specifications. Install circuits under 25 volt with color-coded No. 18 wire with 0.031" high temperature (105 degs. F) plastic insulation on each conductor and plastic sheath over all.
Install electronic circuits with color-coded No. 22 wire with 0.023" polyethylene insulation on each conductor with plastic-jacketed copper shield over all.

SECTION 23 31 13.00 – METAL DUCTS

Submittal Requirements
Product Data: For liners, adhesives, sealants and gaskets.
Shop Drawings: Sheet metal thickness, reinforcing details, duct layouts indicating sizes, configuration, liner material, elevation and static pressure class.

Ductwork Materials
Exposed Ductwork Materials: Where ductwork is indicated to be exposed to view in occupied spaces, provide materials which are free from visual imperfections including pitting, seam marks, roller marks, stains and discolorations, and other imperfections, including those which would impair painting. Mechanical contractor shall confirm ductwork paint scope and color with architect.
Exposed ductwork which is to be painted shall have paint grip applied and be oil free.
Sheet Metal: Except as otherwise indicated, fabricate ductwork from galvanized sheet steel, lock forming quality, with G 90 zinc coating and mill phosphatized for exposed locations. Minimum gauge shall be 24.
Miscellaneous Ductwork Materials
Volume Dampers: Provide volume dampers in all branch ducts or as required for balancing to required air flows.
Fittings: Provide radius type fittings fabricated of multiple sections with maximum 15 deg. change of direction per section. Unless specifically installed otherwise, use 45 deg. laterals and 45 deg. elbows for branch takeoff connections. Where 90 deg. branches are indicated, provide conical type tees.
Duct Sealant: Non-hardening, non-migrating mastic or liquid elastic sealant, type applicable for fabrication/installation detail, as compounded and recommended by manufacturer specifically for sealing joints and seams in ductwork.
Duct Cement: Non-hardening migrating mastic or liquid neoprene based cement, type applicable for fabrication/installation detail, as compounded and recommended by manufacturer specifically for cementing fitting components, or longitudinal seams in ductwork.
Ductwork Support Materials: Except as otherwise indicated, provide hot-dipped galvanized steel fasteners, anchors, rods, straps, trim and angles for support of ductwork.
Flexible Ducts
Either spiral-wound spring steel with flameproof vinyl sheathing, or corrugated aluminum. Unless specifically mentioned, maximum length of flex duct on the supply equals 5 feet. Flex is not allowed for return, relief or exhaust applications. The flexible ducts indicated for use in the H.V.A.C. system shall conform to the requirements of UL 181 for Class 0 or Class 1 flexible air ducts and shall be so identified.
Where installed in unconditioned spaces other than return air plenums, provide 1" thick 1-1/2 lb. continuous flexible fiberglass sheath with vinyl vapor barrier jacket.
Installation is not permitted above drywall ceilings and inaccessible ceilings.
Fabrication
Shop fabricate ductwork in 4, 8, 10 or 12-ft lengths, unless otherwise indicated or required by the drawings. All ductwork shall be Pittsburgh Construction with a minimum of thickness of 24 gauge. In addition, ductwork used in systems over 3" W.G. shall have cold sealant applied. Shop fabricate ductwork of gauges and reinforcement complying with SMACNA "HVAC Duct Construction Standards".
Pneumatically Applied Sealant
Fabricate ductwork with duct liner in each section of duct where indicated. Laminate liner to internal surfaces of duct in accordance with instructions by manufacturers of lining and adhesive, and fasten with mechanical fasteners. Duct liner to be 3-lb density for acoustic requirements 1"

thick or as noted. Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is used.
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Duct Liner: Fibrous glass of thickness indicated. 3-lb density. All liners, insulation and adhesives shall have a flame spread index not more than 25 and a smoke developed index of not more than 50.
Duct Liner Adhesive: As recommended by insulation manufacturer and complying with NFPA 90A or NFPA 90B.
Duct Liner Fasteners: Comply with SMACNA HVAC Duct Construction Standards.
Installation of Metal Ductwork
General: Assemble and install ductwork in accordance with recognized industry practices which will achieve air-tight (5% leakage for systems rated 3" and under; 1% for systems rated over 3") and noiseless (no objectionable noise) systems, capable of performing each indicated service. Install each run with minimum number of joints.
Align ductwork accurately at connections, within 1/8" misalignment tolerance and with internal surfaces smooth.
Support ducts rigidly with suitable ties, braces, hangers and anchors of type which will hold ducts true-to-shape and to prevent buckling. Support vertical ducts at every floor.
Sealing: Seal all longitudinal seams, S's and drives and all joints with mastic or cement. Install according to SMACNA standards.
Balancing Dampers: The sheet metal contractor shall be fully responsible for installing balancing dampers in the ductwork, (whether shown on the drawing or not) in order to arrive at the intended air flow. The balancing sub-contractor shall provide direction and assistance in determining locations where dampers are required.
Additional dampers, if required shall be installed at no additional cost to the owner.
Wall Penetrations: Seal and pack around all ducts and piping sleeves which pass through walls that extend to bottom side of structure and rated walls.
Field Fabrication: Complete fabrication of work at project as necessary to match shop-fabricated work and coordinate with other trades.
Routing: Locate ductwork runs, except as otherwise indicated, vertically and horizontally and avoid diagonal runs wherever possible. Run ductwork in shortest route which does not obstruct useable space or block access for servicing building and its equipment. Hold ducts close to walls, overhead construction, columns, and other structural and perimeter enclosure elements of building. Limit clearance to 1/2" where furring is shown for enclosure or concealment of ducts, but allow for insulation thickness, if any. Where possible, locate insulated ductwork for 1" clearance outside of insulation. Wherever possible in finished and occupied spaces, conceal ductwork from view, by locating in mechanical shafts, hollow wall construction or above suspended ceilings. Do not encase horizontal runs in solid partitions, except as specifically shown.
Coordinate layout with suspended ceiling and lighting layouts and similar finished work.
Electrical Equipment Spaces: Do not route ductwork through transformer vaults and their electrical equipment spaces and enclosures.
Penetrations: Where ducts pass through interior partitions and exterior walls, and are exposed to view, conceal space between construction opening and duct or duct insulation with sheet metal flanges of same gauge as duct. Overlap opening on 4 sides by at least 1-1/2". Fasten to duct and substrate.
All dampers shall be low leakage with edge and blade seals. Damper manufacturers are subject to specification compliance. Provide products by one of the following: Greenheck Fan Corporation
Nailor Industries
Pottorff
Ruskin Company
Young Regulator Company
Coordination: Coordinate duct installations with installation of accessories, dampers, coil frames, equipment, controls and other associated work of ductwork system.
Installation of Duct Liner
General: Install duct liner in accordance with SMACNA HVAC Duct Construction Standards. Size of ductwork shown on the drawings is free net area, outside dimension of ducts will need to be increased if lined duct is used.
Store internally lined ductwork up off of the floor. Protect internally lined ductwork from water and dust.
The following ductwork shall be lined in addition to that shown per plans:
Return from open ceiling plenum return to HVAC unit.
Supply and return ductwork 10 feet downstream of HVAC unit.
Transfer air ducts.
Butter the leading edge of all internal duct lining with the manufacturer's recommended adhesive.
Inspect and repair all damaged lining prior to installation of ductwork.
Installation of Flexible Ducts
Maximum Length: For any duct run using flexible ductwork, do not exceed 5' - 0" extended length.
Installation shall have smooth full radius turns down to diffuser.
Installation not permitted above inaccessible ceilings.

23 34 23.00 – HVAC POWER VENTILATORS

Submittal Requirements
Product Data: For each type of product indicated.
Ceiling Ventilators
Centrifugal Ceiling Exhausters: Provide centrifugal ceiling exhausters, designed for ceiling or wall mounting, of type, size and capacity as scheduled.
Provide AMCA Certified Ratings Seal.
Type: Provide galvanized steel housing lined with acoustical insulation, adaptable for ceiling or wall installation. Provide centrifugal fan wheels mounted on motor shaft with fan shrouds, all removable for service.
Provide integral backdraft damper fan discharge.
Grille: Provide steel louvered grille with flange on intake with thumbscrew attachment to fan housing.
Motor: Provide permanent split-capacitor motor, permanently lubricated.
Accessories: Provide manufacturer's standard roof jack, wall cap, and transition fittings as indicated on drawings or schedules.
Vibration Isolation: Provide spring floor isolators or hangers depending on type of installation.
Duct Lining: Provide 1" thick duct liner a minimum of 5' (five feet) up and down stream of fan.
Manufacturer: Subject to compliance with requirements, provide centrifugal ceiling exhausters of one of the following:
Acme

Cook (Loren) Co.
Greenheck.
Twin City Fan & Blower
INSTALLATION
Coordinate ventilator work with work of roofing, walls, and ceilings, as necessary for proper interfacing.
Provide access door in duct below ventilator to service damper.
Solder bottom joints and up 2" of side joints of duct under roof ventilator to retain any moisture entering ventilator.

SECTION 23 34 33.00 – AIR CURTAINS

Submittal Requirements
Product Data: For each type of product indicated.

General
General: Provide air doors of size and capacity as noted on drawings. Air doors shall operate at a low sound level and meet OSHA standards.
Construction:
Wheels: Talc-filled polypropylene or aluminum.
Housing: Galvanized steel.
Motorboard: Galvanized steel.
Velocity Control: Provide adjustable louver damper controls for regulating rate of air flow. When louvers are completely closed air velocity shall reduce to sixty percent.
Directional Control: Provide adjustable vanes at outlet nozzle for directing air where needed and readily set to compensate for possible draft conditions through door openings. Vanes shall have a forty percent girth sweep front to back.
Motors: Provide totally enclosed shaded-pole, or permanent-split capacitor motors, Class "B" insulation, resiliently mounted, tap wound with built-in thermal overload protection, and with permanently lubricated type sleeve or ball bearings. Select motors with the voltage as scheduled.
Extended Motor Oilers: Provide plastic tubes for lubricating motor bearings which are installed beneath grille.
Motor Controls: Provide multi-speed motor control switch with OFF position, mounted behind access door.
Fans: Provide double width, double inlet centrifugal fans, which are balanced statically and dynamically, of indicated capacity. Select fans with single or double extended motor shaft, with fan housing and motor fastened as an integral assembly to a motorboard.
Electric Air Curtains
Heating Elements: Except as otherwise indicated, provide structural and perimeter enclosure elements of type, sizes, capacities and ratings for duty indicated; consisting of resistance elements enclosed in steel sheath with extended fins, or with spirally finned sheet.
Electric Heating Capacity: Size elements for indicated fan speed, CFM, motor heating load (BTUH), entering air temperature, and electric input (watts, voltage, phase).
Internal Electrical Wiring: Provide units with high temperature, electrical heat-resistant wiring in flexible metal conduit from terminal junction box to electrical devices. Provide fusing for motor and control circuit wiring. Provide all required control transformers.
Devices: Provide air doors with the following devices: Thermally activated fan switch to keep fan motor operating until residual heat is dissipated.
Disconnect switch.
Automatic reset, high limit cut-out switch located in discharge air stream.
Manual "Summer-OFF-Winter" switch.
Unit-mounted line voltage thermostat
Time delay relay
Control Power Transformer
Magnetic Contactor (Relay Kit)
Manufacturers: Subject to compliance with requirements, provide electric air doors of one of the following:
Berner
Mars Sales Company, Inc.
Powered Aire Inc.
Raywall
Schwank
Installation
Provide disconnect at side or unit for installation in recessed ceiling.
Provide trim piece to finish linear slot supply in ceiling for recessed units.
Coordinate with other electrical work, including wiring/cabling, as necessary to properly interface installation of heating terminal units with other work.
Clean dust and debris from each heating terminal as it is installed to ensure cleanliness.
Comb out damaged fins where bent or crushed before covering elements with enclosures.
Touch-up scratched or marred heating terminal enclosure surfaces to match original finishes.
Field Quality Control
Upon completion of installation of electric heating terminals, and after building circuitry has been energized, test heating terminals to demonstrate capability and compliance with requirements.
Replace electric heating terminals and accessories which are damaged and remove damaged items from construction site.

23 37 13.00 – DIFFUSERS, REGISTERS AND LOUVERS

Submittal Requirements
Product Data: For each type of product indicated.

DIFFUSERS, GRILLES AND REGISTERS
Manufacturer: Subject to compliance with requirements, provide diffusers of one of the following:
Anemostat Products Div., Dynamics Corp. of America.
Metal-Aire
Titus Products Div., Philips Industries, Inc.
Tuttle and Bailey.
Price
Louvers and dampers
Provide louvers and dampers of size as noted.
Manufacturer: Subject to compliance with requirements, provide diffusers of one of the following:
Aerolite
Prefco
Pottorff
Greenheck
Ruskin

23 74 33.00 – PACKAGED OUTDOOR ROOFTOP UNITS

Submittal Requirements
Product Data: For each type of product indicated.

Warranty
Warranty on Compressor and Heat Exchanger: Provide written warranty, signed by manufacturer, agreeing to

replace/repair, within warranty period, compressors and heat exchangers with inadequate and defective materials and workmanship, including leakage, breakage, improper assembly, or failure to perform as required; provided manufacturer's instructions for handling, installing, protecting, and maintaining units have been adhered to during warranty period. Replacement is limited to component replacement only, and does not include labor for removal and reinstallation.
Warranty Period: 5 years from date of owner acceptance.
[ROOFTOP HEAT PUMP UNITS
Unit Casing: Panels are of 20-gauge metal, cleaned, phosphatized and coated with resin primer and baked enamel finish.
Access doors provide access to unit controls, filters, indoor coil, supply air fans and optional economizer supply/return air dampers. Inside air section is completely insulated with fireproof, permanent, odorless, glass fiber material. All removable panels and access doors have neoprene gaskets to prevent leakage. The unit base pan is insulated with polyurethane foam insulation. Knockouts are provided for utility and control connections. Drain connections are provided to accommodate indoor and outdoor coil water runoff. Lifting lugs are provided as an integral part of the unit.
Compressor: All units have hermetically sealed, high efficiency reciprocating compressors designed for heat pump duty. Compressors are equipped with over temperature, over current and high pressure controls. Crankcase heaters are standard.
Refrigerant Circuit: All units have expansion devices to provide proper refrigerant flow control in both heating and cooling. Heavy duty, high capacity solenoid type reversing (four-way) valve is standard to provide automatic refrigerant cycle changeover.
Condenser Coil: Outdoor coils are specially designed for heat pump application with widely spaced, wavy-finned surface and staggered row copper tubing. 3/8-inch OD seamless copper tubing is mechanically bonded to aluminum fins. Each coil is factory pressure and leak tested.
Evaporator Coil: Indoor coils are 3/8-inch OD seamless copper tubing mechanically bonded to aluminum fins and are factory pressure and leak tested.
Condenser Fans and Motors - Shall be vertical discharge, balanced, direct-drive fans mounted on pan to de-energize unit upon detection of high condensate levels in primary condensate pan.
Condenser Fan: Direct drive, statically and dynamically balanced propeller fans are used. All fans are weatherproof and UL listed for outdoor use. Permanently lubricated motors have built-in thermal overload protection.
Evaporator Fan: Belt-driven, forward-curved, centrifugal type fans equipped with an adjustable motor sheave are standard. Fan and motor bearings are permanently lubricated. Motor has built-in overload protection. Fan drive components are mounted on rubber-in-shear isolators to reduce noise and vibration.
Defrost Control: The demand defrost system compares precise temperature difference between the outdoor ambient temperature and outdoor coil fin surface temperature to assess outdoor coil heat transfer capacity. Solid-state comparator and defrost logic circuitry activates the reverse cycle defrost strictly on a demand basis to eliminate unnecessary defrost cycling. Logic circuitry has an integral time override to limit defrost cycle to a maximum of 8 minutes.
Filters: Provide air filters to fit in filter box, with a Maximum filter face velocity of 500 fpm, of the following type: Disposable Type: Provide MERV 13 air filters, consisting of viscous coated fibers with filtering media encased in fiberboard cell sides having perforated metal grids on each side to provide media support.
Outside Air Options:
Economizer:
Enthalpy Controlled Economizer: Provide return and outside air dampers, outside air filter, fully modulating electric control system with dry control, and adjustable mixed-air thermostat. System shall be capable of driving 100% closed for unoccupied mode, minimum outside air position and modulation to 100 percent open outside air capability. Provide automatic changeover through adjustable control device.
Relief:
Power Exhaust Fan – Shall be factory installed for units larger than 5 tons. Shall include relief damper section with mist eliminator. Dampers open to relieve positive pressure within the building. Available only with economizer.
Accessories: Electric Supplemental Heaters: Slide-in heater module mounts in unit discharge air passage. Curb: Provide insulated roof curb under unit, constructed in accordance with NRCA Standards. Provide seal strip between curb and unit, and wood nailer for flashing.
Thermostat: Provide thermostat assembly for 7 day/night setback staged heating and cooling with manual or automatic changeover on standard subbase.
Hail Guards: Provide hail guards around the condenser coil to protect the condenser fins against hail.
Manufacturer: Subject to compliance with requirements, provide rooftop units of one of the following:
Aaon
Carrier Air Conditioning; Div. of Carrier Corp.
Trane Co.
Bryant
Lennox
Daikin
Johnson Controls]
VARIABLE VOLUME ROOFTOP UNIT
General: All units shall be completely factory assembled and tested, piped, internally wired, and fully charged with HFC Refrigerant. Cooling capacities shall be rated in accordance with A.R.I. Standard 350. All electrical wiring shall be in accordance with the National Electric Code. All units shall be suitable for outdoor rooftop or ground level installation.
Unit Casing: All exterior surfaces shall be phosphatized, zinc-coated steel with enamel finish. Screws shall be coated with zinc-plus-zinc chromate and with neoprene washers where sealing shall be required. Doors shall provide access to control components, filters, outside/return air dampers, evaporator coil, and supply and exhaust fan sections. All access doors and removable panels shall have neoprene gaskets a 1/2-inch, dual density fiber insulation. Roof assembly shall have modified lock seam joints filled with sealant. Drain hole(s) shall be provided on each side of the condenser section. Unit base shall be one-piece welded assembly with 14-gauge formed, load bearing members and overhang roof curb to facilitate water runoff. Unit lifting lugs accept chains or cables for rigging.
Roof Curb: The curb shall be constructed of 16-gauge, zinc-clad steel. The roof curb is designed to mate with unit and provide support and complete weathertight installation when properly installed. Wood nailer strip shall be factory installed, with gasketing provided to seal supply/return air openings. Design shall allow for


connection of ductwork to curb prior to setting of unit. Curb shall be 14 inches high and approved by the National Roofing Contractors Association. Roof curb ships knocked down for easy field assembly. Provide curb type and flashing per roofing manufacturer requirements. Electrical: All wiring shall be installed and tested in individual component assemblies, then rechecked during final factory run test.
Refrigeration System:
Compressors - All units shall have two or more 3,600 rpm, hermetically sealed compressors. Compressors shall be equipped with over-temperature, over-current and high-pressure controls. Compressors shall be variable capacity. Crankcase heaters and suction line accumulators shall be standard on all models. Provide compressor isolation service valves.
Units shall also have:
Cylinder unloader for capacity control, with minimum of two steps or as scheduled.
[Hot-gas bypass valve and piping on the lead circuit]
Thermal expansion valves, filter dryers, sight glasses, liquid line service valves.
Coils: Refrigeration Controls - Refrigeration controls shall include condenser fan, evaporator fan, compressor contactors, and fan safety controls. Each circuit of the unit shall have a separate set of refrigeration controls. Compressor safety controls are outlined in the section above. Evaporator Coil - All units shall have three independent circuits. Heavy-duty aluminum fins mechanically bonded to 1/2-inch seamless copper tubing shall be standard. Factory pressure and leak tested at 300 psi. Expansion valves shall be standard.
High Capacity DX coil (Trane Intellipack)
Condenser Coil - Factory pressure and leak tested at 425 psi. Aluminum fin surface mechanically bonded to 3/8-inch seamless copper tubing.
Fans: Indoor Air Fan - Shall be two, double-inlet, direct drive, backward incline, centrifugal-type fans mounted on a common shaft with adjustable sheave drive. All fans statically and dynamically balanced and tested at the factory. Supply fan shall be run tested in the unit as part of unit run test. Unit reaches its rated rpm before the fan shaft passes through the first critical speed. Fan shaft shall be mounted on two self-aligning, permanently sealed ball bearings. Condenser Fans and Motors - Shall be vertical discharge, balanced, direct-drive fans mounted in full length, bell-mouth orifices. Fan motor shall be three-phase with permanently lubricated ball bearings and built-in thermal overload protection. Motors shall be line voltage, three phase and shall be equipped with rain shields to eliminate moisture.
Control Fan: Provide a double sloping drain pan. Provide high condensate switch in primary condensate pan to de-energize unit upon detection of high condensate levels
Gas Fired Heating:
General - Shall be a completely assembled and wired gas-fired heating system with the unit. Test fired at the factory prior to shipment.
Heat Exchanger - Shall be tubular two-pass design with 16-gauge aluminumized steel primary and 18-gauge secondary heat exchanger surfaces. Free-floating design eliminates contraction and expansion stresses and noises.
Combustion Blower - Shall be centrifugal-type fan, which provides required air for efficient fuel combustion. Fan motor shall have built-in thermal overload protection.
Gas Safety Controls - Shall have electronic flame safety controls, which require proving of combustion air prior to ignition sequence which includes 60-second prepurge cycle. Direct ignition spark to the burner. Positive ignition must occur within four seconds or heating cycle locks out. A 30-second delay occurs between first and second state gas valves. Continuous electronic flame supervision is standard. Combustion blower continues to operate for 60-seconds for a postpurge cycle.
Burner - Shall be industrial-type power burner with air-proving switch. Automatic pressure sensing safety switch prevents burner operation if burner is open for maintenance or inspection. Ceramic burner cone shapes flame to prevent to prevent impingement on sides of heat exchanger drum. Burner assembly houses ignition in monitoring electrodes. Burner shall be full modulating with a minimum turndown of 5:1.
Exhaust Air Options:
Powered Relief - Provide factory installed exhaust fan discharging relief damper section with mist eliminator and building pressurization control. Dampers shall modulate open to relieve positive pressure within the building. Exhaust fan shall be sized for 100% of supply air CFM.
Economizer:
Enthalpy Controlled Economizer: Provide return and outside air dampers, outside air filter, fully modulating electric control system with dry control, and adjustable mixed-air thermostat. System shall be capable of driving 100% closed for unoccupied mode, minimum outside air position and modulation to 100 percent open outside air capability. Provide automatic changeover through adjustable control device.

Filters:
Provide air filters to fit in filter box, with a Maximum filter face velocity of 500 fpm, of the following type:
Filters: Provide 65%, efficient filters.
Provide filters with clean resistance not exceeding 0.10" w.g. at face velocity of 300 fpm, and ASHRAE weight arrestance efficiency of 70-82%, based on final operating resistance of 0.5" w.g.
Options:
Hail guards protecting the condenser fins.
Controls:
Self Contained: Programmable Electronic Night Setback Thermostat - Shall provide heating setback and cooling setup with 7-day, programming capability. Optional remote sensor available.
DDC Interface – Equipment manufacturer shall provide a factory installed communications card to allow transfer of digital information from equipment manufacturer controller to temperature controls system/BAS. Mechanical contractor to coordinate all communications requirements with temperature controls contractor prior to bid.
Manufacturers:
Subject to compliance with requirements, provide rooftop units of one of the following:
Aaon
Carrier Air Conditioning, Div. of Carrier Corp.
Lennox
Trane; a division of Ingersoll Rand.
Daikin
Johnson Controls



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NO.	REVISIONS:	DATE:
	BID, LL REVIEW, AND PERMIT	06.18.25

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1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

MECHANICAL SPECIFICATIONS

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CHECKED BY
AJK
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SHEET NAME
M-502



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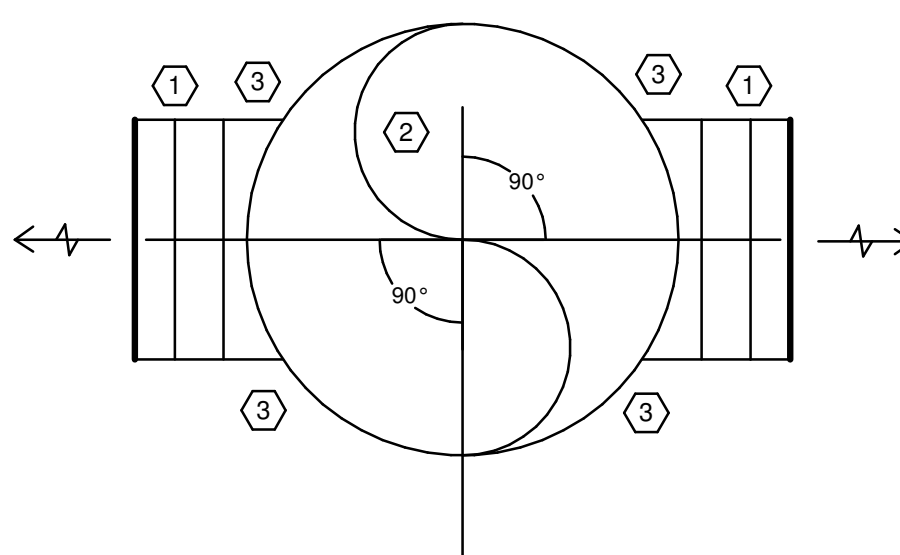


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MECHANICAL - DETAILS

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JOB NUMBER
25303
SHEET NAME
M-601

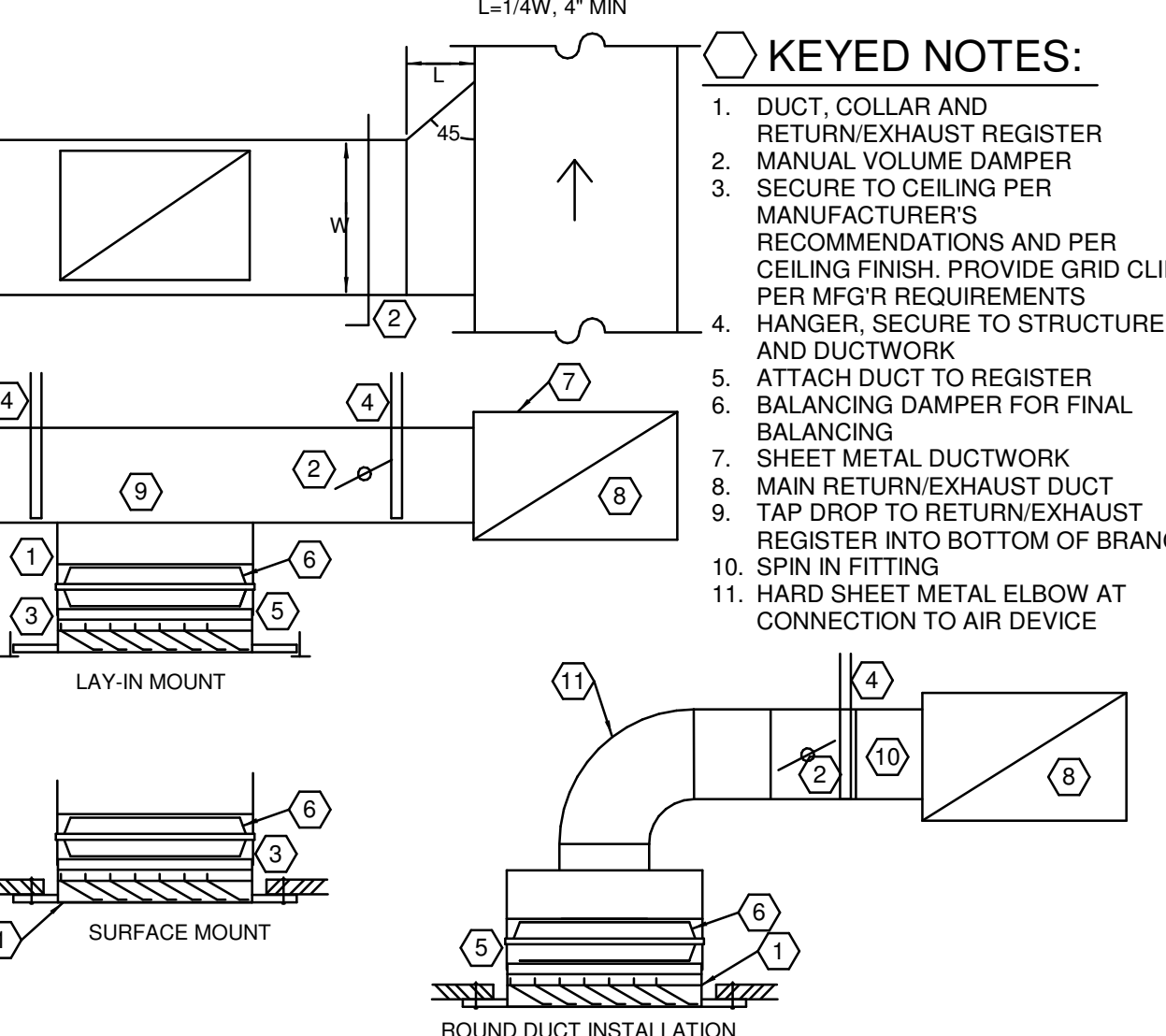


KEYED NOTES:

- REGISTER WITH 0 DEGREE DEFLECTION BLADE DAMPER (TO BE SIZED AS SCHEDULED)
- SUPPLY DUCT
- SEAL JOINTS BETWEEN COLLAR AND MAIN DUCT

233713.00-01 - ANGLED REGISTER INSTALLATION 0 DEGREES

SCALE: NONE

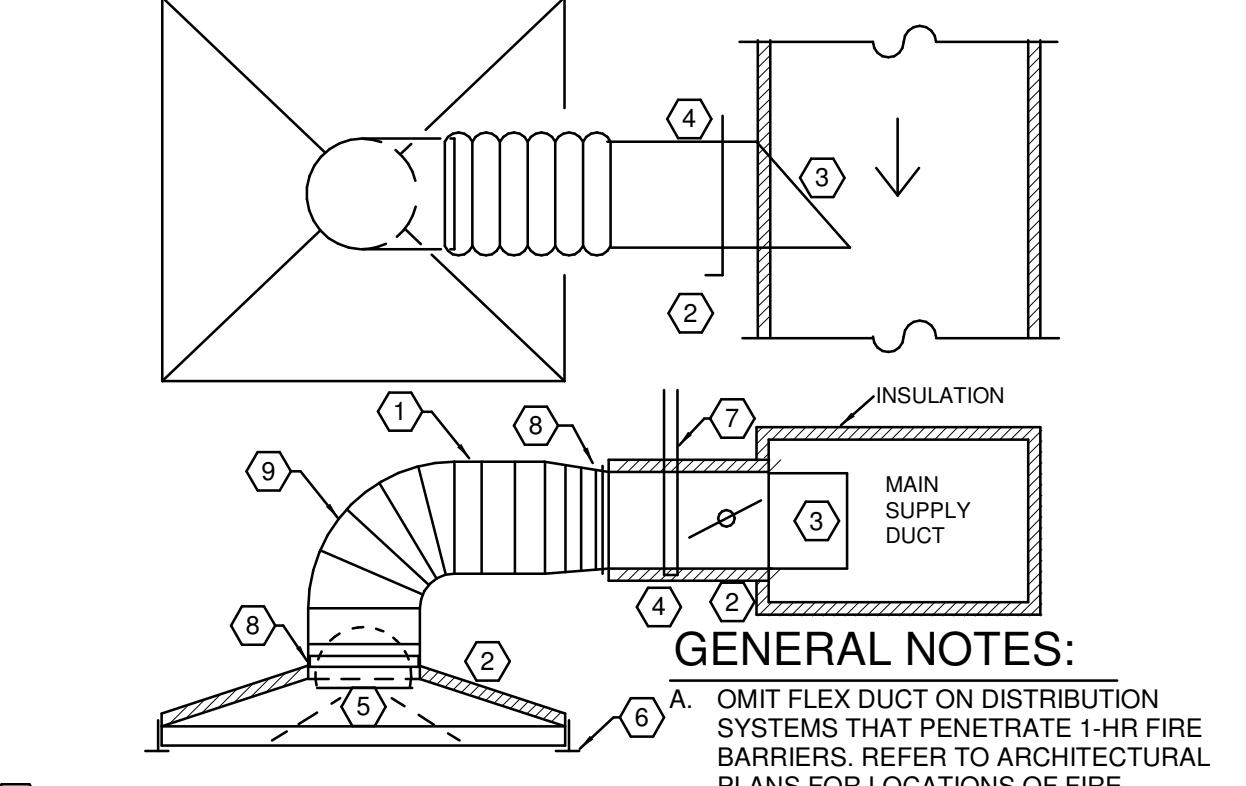


KEYED NOTES:

- DUCT, COLLAR AND RETURN/EXHAUST REGISTER
- MANUAL VOLUME DAMPER
- SECURE TO CEILING PER MANUFACTURER'S RECOMMENDATIONS AND PER CEILING FINISH. PROVIDE GRID CLIPS PER MFG'R REQUIREMENTS
- HANGER, SECURE TO STRUCTURE AND DUCTWORK
- ATTACH DUCT TO REGISTER
- BALANCING DAMPER FOR FINAL BALANCING
- SHEET METAL DUCTWORK
- MAIN RETURN/EXHAUST DUCT
- TAP DROP TO RETURN/EXHAUST REGISTER INTO BOTTOM OF BRANCH
- SPIN IN FITTING
- HARD SHEET METAL ELBOW AT CONNECTION TO AIR DEVICE

233713.00-21 - RETURN/EXHAUST REGISTER INSTALLATION

SCALE: NONE

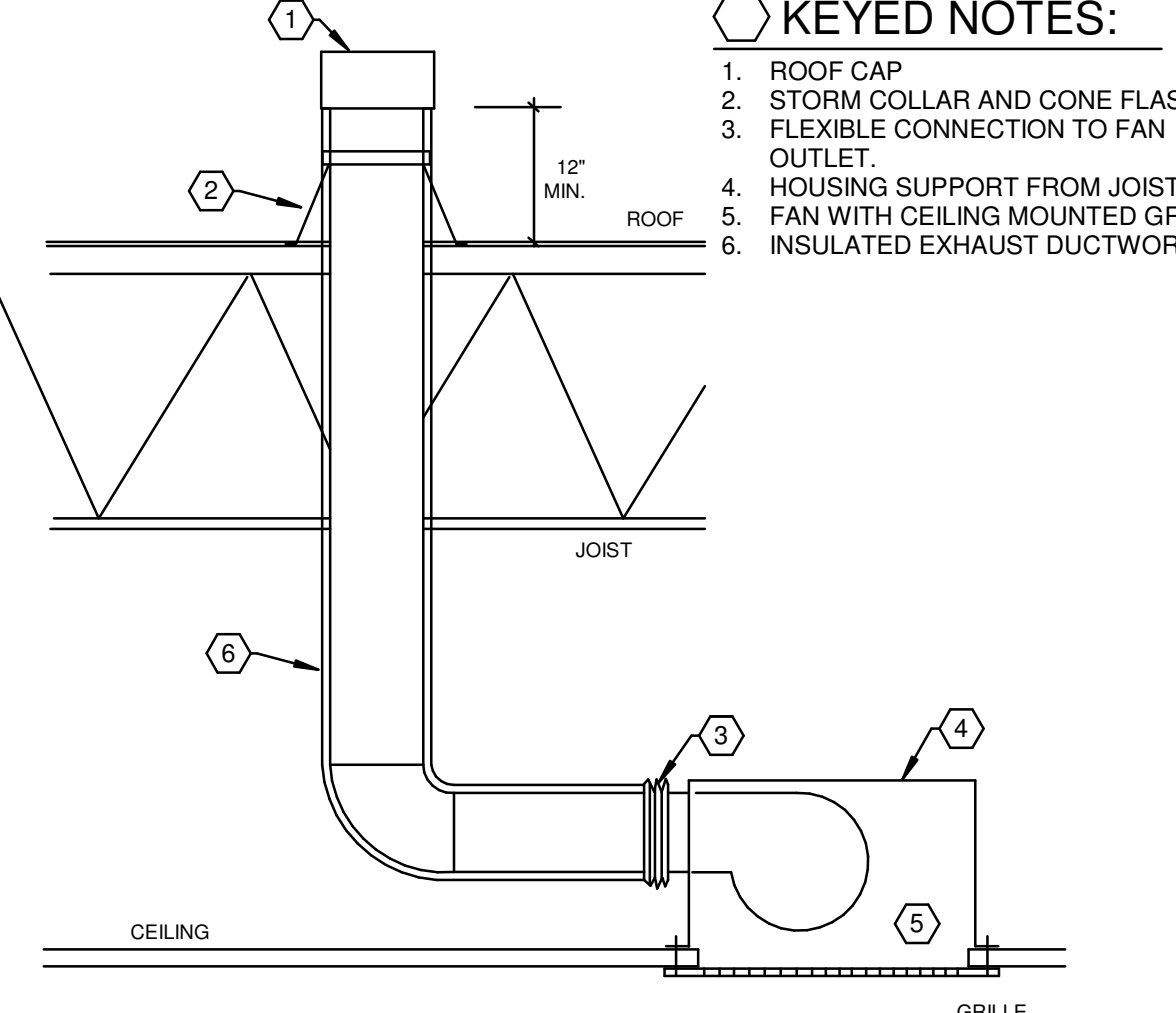


KEYED NOTES:

- MAXIMUM LENGTH OF INSUL. FLEX DUCT EQUALS 5 FEET. FLEX NOT PERMITTED IN INACCESSIBLE CEILINGS
- INSULATED DUCT, COLLAR AND DIFFUSER BY HVAC CONTRACTOR
- SCOOP
- SPIN IN FITTING WITH MANUAL VOLUME DAMPER
- INTERNAL BUTTERFLY DAMPER FOR DRYWALL APPLICATIONS ONLY. (PROVIDE KEY FOR ADJUSTMENT)
- SECURE TO CEILING PER MANUFACTURER'S RECOMMENDATIONS AND PER CEILING FINISH. PROVIDE GRID CLIPS PER MFG'R REQUIREMENTS. PROVIDE FRAMING FOR DRYWALL INSTALLATION.
- HANGER, SECURE TO STRUCTURE AND DUCTWORK
- PEEL BACK INSULATION AND PROVIDE STRAPPING AND SHEET METAL SCREWS AT FLEX CONNECTION TO DUCT. THEN PROVIDE STRAPPING AROUND INSULATION
- SUPPORT FLEX TO PREVENT COLLAPSING

233713.00-04 - DIFFUSER INSTALLATION TYPICAL

SCALE: NONE

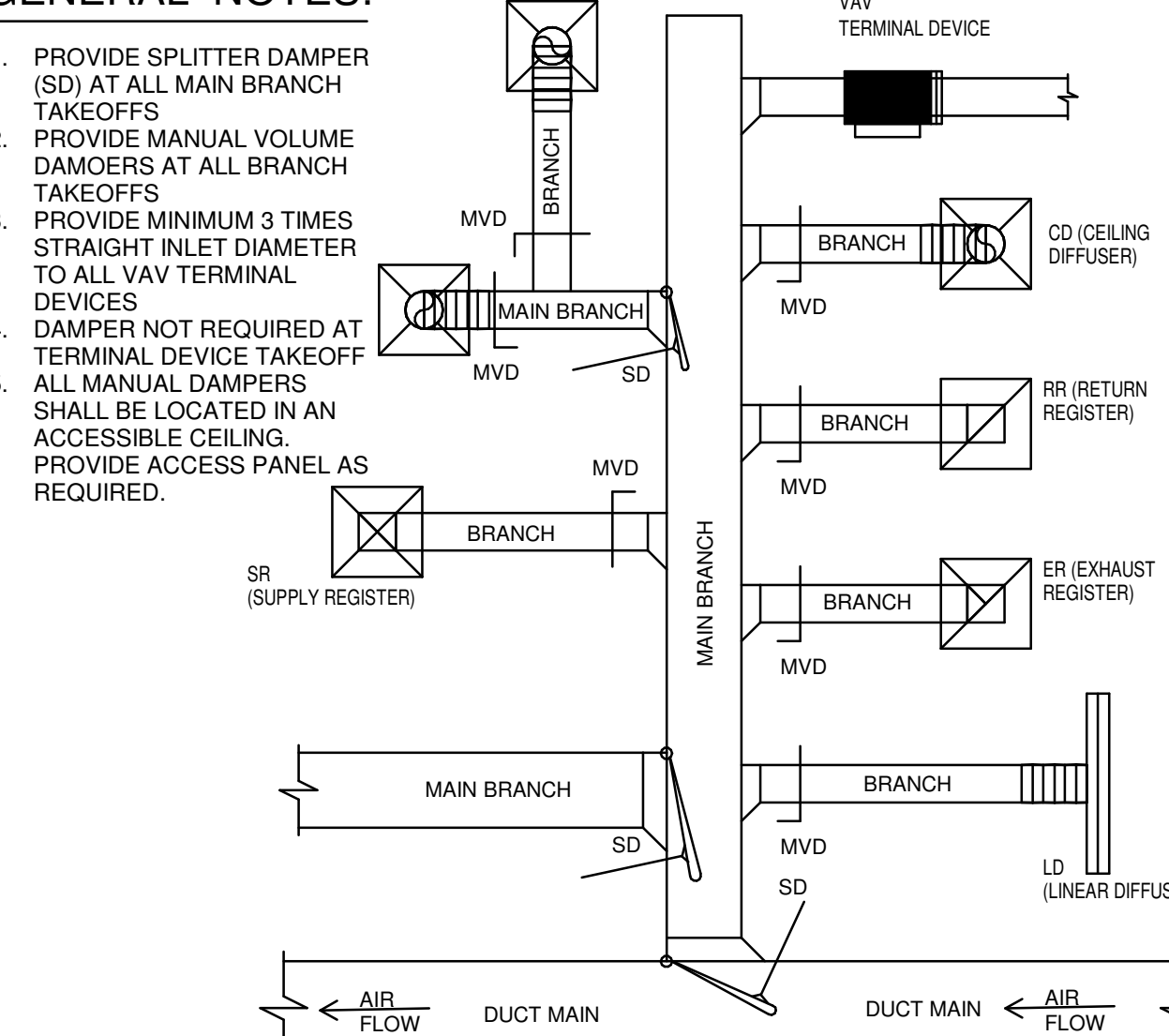


KEYED NOTES:

- ROOF CAP
- STORM COLLAR AND CONE FLASHING
- FLEXIBLE CONNECTION TO FAN OUTLET
- HOUSING SUPPORT FROM JOIST
- FAN WITH CEILING MOUNTED GRILLE
- INSULATED EXHAUST DUCTWORK

233423.00-15 - CEILING EXHAUST FAN

SCALE: NONE

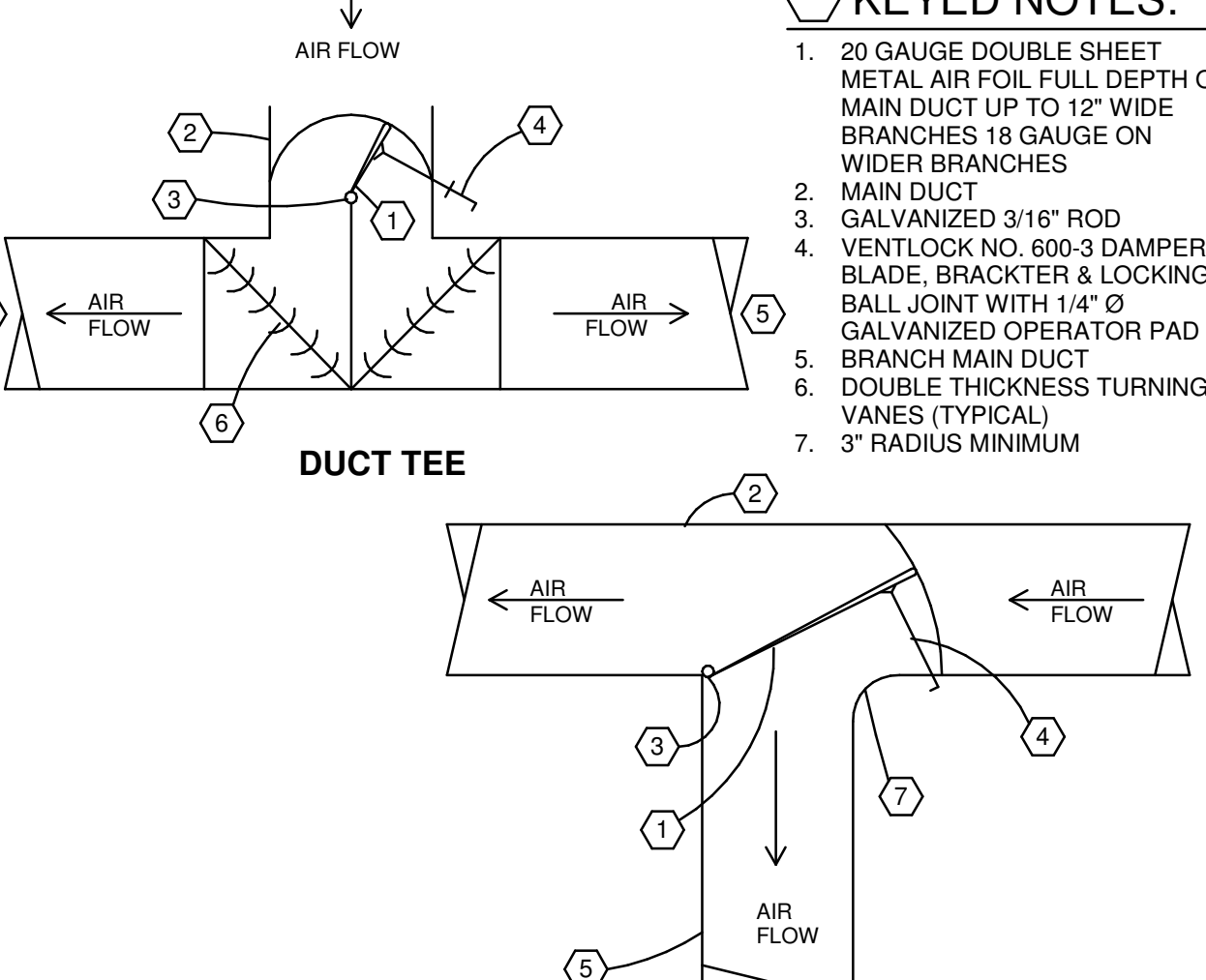


GENERAL NOTES:

- PROVIDE SPLITTER DAMPER (SD) AT ALL MAIN BRANCH TAKEOFFS
- PROVIDE MANUAL VOLUME DAMPERS AT ALL BRANCH TAKEOFFS
- PROVIDE MINIMUM 3 TIMES STRAIGHT INLET DIAMETER TO ALL VAV TERMINAL DEVICES
- DAMPER NOT REQUIRED AT TERMINAL DEVICE TAKEOFF
- ALL MANUAL DAMPERS SHALL BE LOCATED IN AN ACCESSIBLE CEILING. PROVIDE ACCESS PANEL AS REQUIRED.

233300.00-01 - MANUAL DAMPER DETAIL

SCALE: NONE

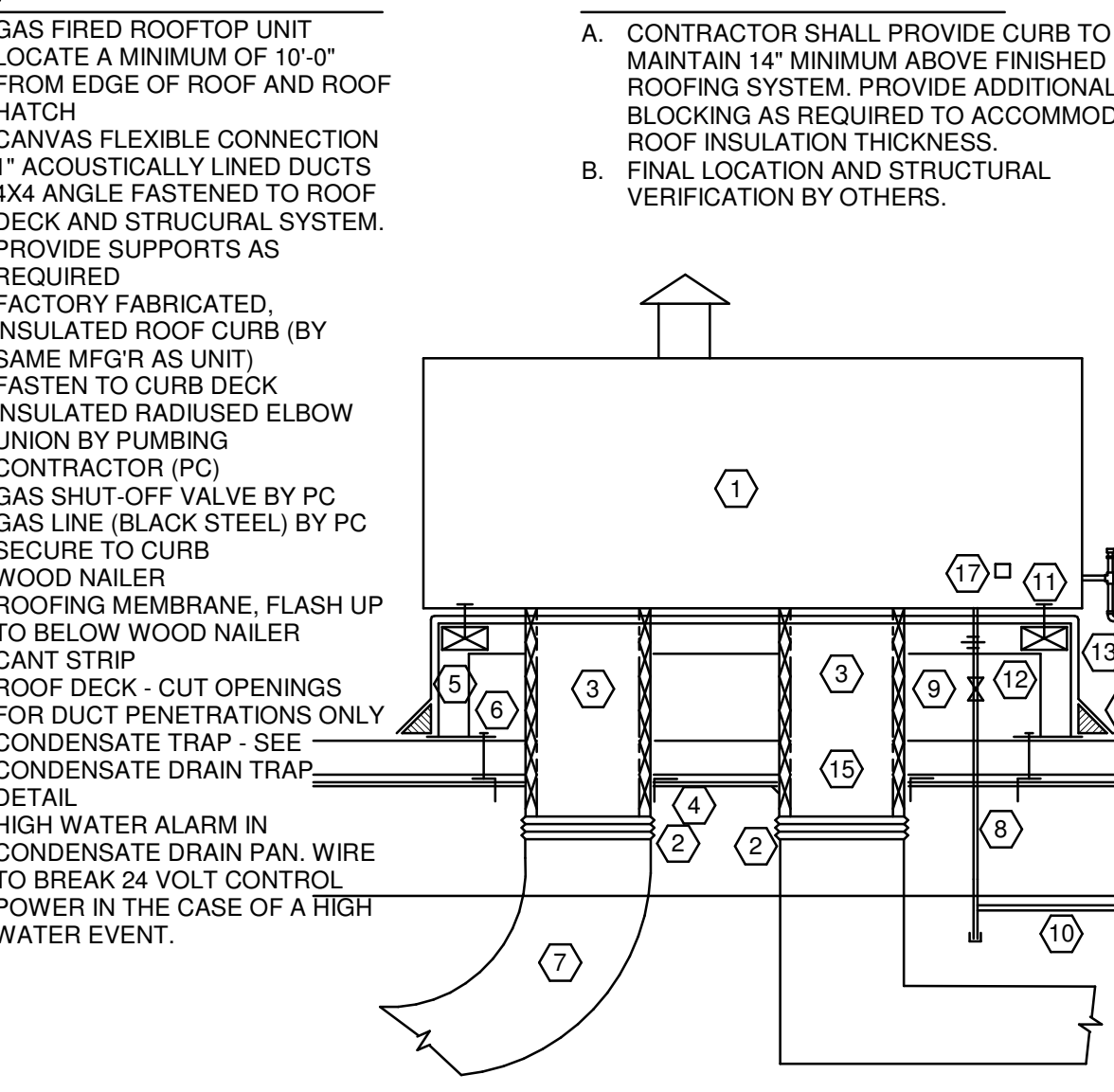


KEYED NOTES:

- 20 GAUGE DOUBLE SHEET METAL AIR FOIL FULL DEPTH OF MAIN DUCT UP TO 12" WIDE BRANCHES 18 GAUGE ON WIDER BRANCHES
- MAIN DUCT
- GALVANIZED 3/16" ROD
- VENTLOCK NO. 600-3 DAMPER BLADE, BRACKET & LOCKING BALL JOINT WITH 1/4" Ø GALVANIZED OPERATOR PAD
- BRANCH MAIN DUCT DOUBLE THICKNESS TURNING VANES (TYPICAL)
- 3" RADIUS MINIMUM

233300.00-01 - MANUAL DAMPER DETAIL

SCALE: NONE



KEYED NOTES:

- GAS FIRED ROOFTOP UNIT LOCATE A MINIMUM OF 10'-0" FROM EDGE OF ROOF AND ROOF HATCH
- CANVAS FLEXIBLE CONNECTION
- 1" ACOUSTICALLY LINED DUCTS
- 4X4 ANGLE FASTENED TO ROOF DECK AND STRUCTURAL SYSTEM. PROVIDE SUPPORTS AS REQUIRED
- FACTORY FABRICATED, INSULATED ROOF CURB (BY SAME MFG'R AS UNIT)
- FASTEN TO CURB DECK
- INSULATED RADIUSSED ELBOW
- UNION BY PUMPING CONTRACTOR (PC)
- GAS SHUT-OFF VALVE BY PC
- GAS LINE (BLACK STEEL) BY PC
- SECURE TO CURB
- WOOD NAILER
- ROOFING MEMBRANE, FLASH UP TO BELOW WOOD NAILER
- CANT STRIP
- ROOF DECK - CUT OPENINGS FOR DUCT PENETRATIONS ONLY
- CONDENSATE TRAP - SEE CONDENSATE DRAIN TRAP DETAIL
- HIGH WATER ALARM IN CONDENSATE DRAIN PAN. WIRE TO BREAK 24 VOLT CONTROL POWER IN THE CASE OF A HIGH WATER EVENT.

237433.00-04 - ROOF CURB & MOUNTING C

SCALE: NONE



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PRODUCT	GENERAL	MISC
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PRODUCT						GENERAL								FINISH	
MARK	DESCRIPTION	MANUFACTURER	MODEL	LENGTH (IN)	WIDTH (IN)	SECTION NUMBER	STATUS	HTG TYPE	MATERIAL TYPE	FINISH TYPE		DAMPER TYPE	BORDER STYLE	ACCESSORIES	
CD-1	DIFFUSERS, REGISTERS AND GRILLES	TITUS	TNS	12	12	23 37 13.00	NEM	CEILING	STEEL	STANDARD WHITE		BUTTERFLY	SURFACE MOUNTED	--	
SR-1	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S300FL	4	26	23 37 13.00	NEM	DUCT	STEEL	STANDARD WHITE		SCOOOP DAMPER	SURFACE MOUNTED	--	
SR-2	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S300FL	4	24	23 37 13.00	NEM	DUCT	STEEL	STANDARD WHITE		SCOOOP DAMPER	SURFACE MOUNTED	--	
SR-3	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S300FL	3	12	23 37 13.00	NEM	DUCT	STEEL	STANDARD WHITE		SCOOOP DAMPER	SURFACE MOUNTED	--	
SR-4	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S300FL	3	10	23 37 13.00	NEM	DUCT	STEEL	STANDARD WHITE		SCOOOP DAMPER	SURFACE MOUNTED	--	
SR-5	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S300FL	3	20	23 37 13.00	NEM	DUCT	STEEL	STANDARD WHITE		SCOOOP DAMPER	SURFACE MOUNTED	--	
SR-6	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S300FL	3	18	23 37 13.00	NEM	DUCT	STEEL	STANDARD WHITE		SCOOOP DAMPER	SURFACE MOUNTED	--	
TG-1	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S50RL	6	12	23 37 13.00	NEM	SIDEWALL	STEEL	BLACK FINISH G.C. TO FIELD PAINT TO MATCH CEILING OR WALLS		NONE	SURFACE MOUNTED	--	
TG-2	DIFFUSERS, REGISTERS AND GRILLES	TITUS	S50RL	6	24	23 37 13.00	NEM	SIDEWALL	STEEL	BLACK FINISH G.C. TO FIELD PAINT TO MATCH CEILING OR WALLS		NONE	SURFACE MOUNTED	--	

NO. OF BEARS	NO. PER BEAR	NO. PER COW	PER 10	100 10	PER
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NUMBER	NAME	AREA	LEVEL	ALL CHANGES	# OF PEOPLE	GA PER PERSON	GA PER SFP	RSE GA	ACT GA	RSE GA	ACT GA	GA RETURN	ACT EXH	CRIT GAS	PRESSURE	% UPGRADE	NATURAL VENTILATION	
1	SALES	3419	LEVEL 1	0	0	52	7.5	0.12	3030	4000	1000	1000	4000	0	25	NEUTRAL	0	--
2	FITTING ROOM AREA	168	LEVEL 1	0	0	1	5	0.06	65	150	31	31	150	0	12.6	NEUTRAL	0	--
3	HALLWAY	231	LEVEL 1	0	0	0	0	0.06	80	100	21	21	100	0	17.3	NEUTRAL	0	--
4	STOCK ROOM	858	LEVEL 1	0	0	0	0	0.12	320	500	104	104	500	0	25.7	NEUTRAL	0	--
5	TOILET ROOM	65	LEVEL 1	0	0	0	0	0	35	50	10	10	0	75	0	NEGATIVE	0	--
6	OFFICE	64	LEVEL 1	0	0	1	5	0.06	85	100	21	21	100	0	11	NEUTRAL	0	--
7	BREAK RM	134	LEVEL 1	0	0	1	5	0.06	75	150	31	31	150	0	10.9	NEUTRAL	0	--
8	SALES 2	321	LEVEL 1	0	0	5	7.5	0.12	165	420	87	87	420	0	22.6	NEUTRAL	0	--

ASSUMPTIONS AND EXECUTION OF THESE METHODS ARE PER ASHRAE 153, 2007

COOLING LOAD BREAKDOWN -
SUMMER DESIGN DB TEMP: 97 F,
SUMMER DESIGN WB TEMP: 77 F

[illegible]

ELECTRICAL	MISC	
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PRODUCT						GENERAL		HEATING	ELECTRICAL	MISC	ELECTRICAL																PRODUCT		
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	SECTION NUMBER	AREA SERVED	STATUS	NEW HTG CAP (Tn)	EMERGENCY	ACCESSORIES	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CH TYPE	CH FURNISHED BY	CH INSTALLED BY	CH MAINT BY	NC TYPE	NC FURNISHED BY	NC INSTALLED BY	NC MAINT BY	DC TYPE	DC FURNISHED	DC INSTALLED BY	DC MAINT BY	FA SHUTDOWN	REQUIRED TO MEET FAULT CURRENT	FAULT CURRENT	EMERGENCY	MARK
AC-1	AIR CURTAIN W/ELECTRIC HEAT	POWERED AIRE	EVE-2-72E	102	23 34 33.00	--	NEW	8	NO	--	AC-1	AC-1 - 208V/3PH, 80M HGT, 0.4 HP, 47.3 MCA, 60A OCP	INT	HFC	HFR	HFR	NG	HFR	HFR	HFR	--	EC	EC	EC	NONE	FALSE	AC-1/3167	FALSE	AC-1

	MISC	
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PRODUCT					GENERAL		AIRFLOW			ELECTRICAL	MISC	ELECTRICAL															PRODUCT						
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	SECTION NUMBER	AREA SERVED	STATUS	EA (CPR)	ESP (T.W.C.)	FAN BHP	FAN MTR SPEED (RPM)	EMERGENCY	ACCESSORIES	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CN TYPE	CN PUNISHED BY	CN INSTALLED BY	CN VIBED BY	CN TYPE	CN PUNISHED BY	CN INSTALLED BY	CN VIBED BY	DC TYPE	DC PUNISHED	DC INSTALLED BY	DC VIBED BY	FA SHOTGUN	REQUIRED TO MEET FAULT CURRENT	FAULT CURRENT	EMERGENCY	MARK	
EF-1	HVAC EXHAUST FAN	GREENECH	SP-LP0511-1	8	23 34 00.00	RESTROOM	NEW	80	4	0.01	773	NO	1.3	EF-1	EF-1 - 120V/1PH, 0.23A FLA, 0.4 ICA, 15A OCP	MAN	EC	EC	EC	EC	EC	NFR	NFR	NFR	..	EC	EC	EC	NONE	FALSE	EF-1, 8879	FALSE	EF-1

	HEATING	ELECTRICAL	MISC.	
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PRODUCT				GENERAL			AIRFLOW			COOLING										HEATING								ELECTRICAL		MISC		ELECTRICAL														PRODUCT														
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING AMT (LBS)	SECTION NUMBER	AREA SERVED	STATUS	SA (CP)	OA (CPH)	DOY RIN AWT (CPH)	ESP (W C.C.)	FAN BHP	NOM CLG (TON)	TOTAL CLG MMB	CALC CLG MMB	EAT CLG	EAT CLG	LAT CLG	LAT CLG	RIN SEER	RIN EER	CALC HTG MMB	EAT HTG	LAT HTG	FUEL TYPE	GAS INPUT	GAS OUT	RIN GAS PRESS	HAC GAS PRESS	RIN AFUE	EMERGENCY	ACCESSORIES	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY										CH TYPE	CH FURNISHED BY	CH INSTALLED BY	CH WIRED BY	NC TYPE	NC FURNISHED BY	NC INSTALLED BY	NC WIRED BY	DC TYPE	DC FURNISHED BY	DC INSTALLED BY	DC WIRED BY	FA SHUTDOWN	REQUIRED TO MEET FAULT CURRENT	FAULT CURRENT	EMERGENCY	MARK
EXRTU	PACKAGED ROOFTOP UNIT, GAS HEAT	TRANE	YHD150P3RH401	1514	23 74 33.00	SALES	EXISTING	4000	1000	410.28	1	2.08	12.5	147.38	106.45	80	66	55	54	14.0	11.0	113.01	57	90	NATURAL GAS	250	203	4.5	14	81	NO	2, 3, 4, 21	RTU-1	RTU-1 - 208V/3PH, 64 MCA, 80A OCP	LON	HC	HC	HC	HC	ECH	HFR	HFR	HFR	--	EC	EC	EC	DUCT	TRUE	RTU-1: 3403	FALSE	RTU-1								
RTU-2	PACKAGED ROOFTOP UNIT, GAS HEAT	TRANE	YSK048AS30L	812	23 74 33.00	BOH	NEW	1470	306	177.29	1	0.8	4	47.81	36.86	80	66	55	54	14.0	12.0	47.72	58	90	NATURAL GAS	80	64.8	4.5	14	81	NO	2, 3, 4, 21	RTU-2	RTU-2 - 208V/3PH, 29 MCA, 40A OCP	LON	HC	HC	HC	HC	ECH	HFR	HFR	HFR	--	EC	EC	EC	DUCT	TRUE	RTU-2: 1915	FALSE	RTU-2								

ACCESSORIES:

1. MOTOR DAM

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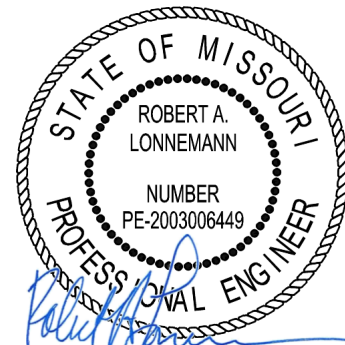
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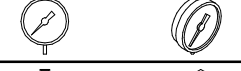
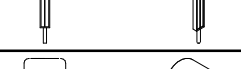
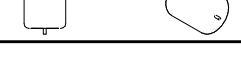

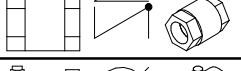
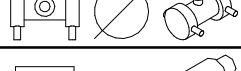
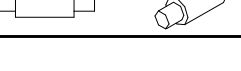

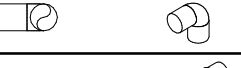



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STANDARD PLUMBING ABBREVIATIONS			
AAV	AIR ADMITTANCE VALVE	HW	DOMESTIC HOT WATER
AD	AREA DRAIN	HWR	HOT WATER RETURN
AFF	ABOVE FINISHED FLOOR	IE	INVERT ELEVATION
AFG	ABOVE FINISHED GRADE	IN WC	INCH WATER COLUMN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	KW	KILOWATT
APPROX	APPROXIMATE	KWH	KILOWATT HOUR
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	LPG	LIQUID PROPANE GAS
AV	ACID VENT	LV	LAVATORY
AW	ACID WASTE	MAU	MAKEUP AIR UNIT
BAS	BUILDING AUTOMATION SYSTEM	MAX	MAXIMUM
BFP	BACKFLOW PREVENTER	MBH	1000 BTUH
BT	BATHTUB	MH	MANHOLE
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
BTUH	BRITISH THERMAL UNIT PER HOUR	MOCPP	MAXIMUM OVERCURRENT PROTECTION
BWV	BACK WATER VALVE	MS	MOP SINK
CA	COMPRESSED AIR	MV	MIXING VALVE
CB	CATCH BASIN	N	NITROGEN
CFH	CUBIC FEET PER HOUR	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CI	CAST IRON	NO	NITROUS OXIDE
CO	CLEAN OUT	NOM	NOMINAL
CO2	CARBON DIOXIDE	NTS	NOT TO SCALE
CP	CIRCULATION PUMP	O	OXYGEN
CW	DOMESTIC COLD WATER	OCPP	OVER CURRENT PROTECTION
DF	DRINKING FOUNTAIN	OD	OVERFLOW DRAIN
DI	DEIONIZED WATER	OI	OIL INTERCEPTOR
DIA	DIAMETER	PC	PLUMBING CONTRACTOR
DN	DOWN	PRV	PRESSURE REGULATING VALVE
DS	DOWNSPOUT	PSI	POUNDS PER SQUARE INCH
DSN	DOWNSPOUT NOZZLE	RD	ROOF DRAIN
EC	ELECTRICAL CONTRACTOR	RH	ROOF HYDRANT
ET	EXPANSION TANK	RO	REVERSE OSMOSIS
EW	ELECTRIC WATER COOLER	RPZ	REDUCED PRESSURE ZONE VALVE
EW	ELECTRIC WATER HEATER	RTU	ROOF TOP UNIT
EX	EXISTING	S	SANITARY
F	FAHRENHEIT	SI	SOLIDS INTERCEPTOR
FCO	FLOOR CLEAN OUT	SK	SINK
FD	FLOOR DRAIN	SOFT	SOFT WATER
FFE	FINISHED FLOOR ELEVATION	SPEC	SPECIFICATION
FLA	FULL LOAD AMPERES	SQ FT	SQUARE FOOT (FEET)
FS	FLOOR SINK	ST	STORM PIPING
FT	FEET	TD	TRENCH DRAIN
FW	FILTERED WATER	TEMP	TEMPERATURE
G	GAS	FEET	THERMOSTATIC MIXING VALVE
GCO	GRADE CLEAN OUT	TP	TRAP PRIMER
GWH	GAS FIRED WATER HEATER	UH	UNIT HEATER
GI	GREASE INTERCEPTOR	UR	URINAL
GPD	GALLONS PER DAY	VAC	VACUUM
GPH	GALLONS PER HOUR	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VP	VACUUM PUMP
GPR	GAS PRESSURE REGULATOR	VTR	VENT THRU ROOF
GW	GREASE WASTE	WAGD	WASTE ANESTHESIA GAS
H&CW	HOT & COLD WATER	WB	WASHER BOX
HB	HOSE BIBB	WC	WATER CLOSET
HC	HVAC CONTRACTOR	WCO	WALL CLEAN OUT
HD	HUB DRAIN	WH	WALL HYDRANT
HP	HORSEPOWER	WF	WATER FILTER
		YH	YARD HYDRANT

FIELD VERIFY ALL CONDITIONS	
DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.	
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.	
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.	
PLUMBING LEGEND	
SYMBOL	DESCRIPTION
PIPING LINE TYPES	
	SANITARY WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING (140°F)
	NATURAL GAS PIPING
ELECTRONIC DRAWING REQUEST	
ELECTRONIC COPIES OF THESE DRAWINGS MAY BE REQUESTED AT: APPS.KLHENGRS.COM/DRAWINGREQUESTS.	
PLUMBING ACCESSORIES	
	UNION
	PRESSURE GAUGE
	THERMOMETER
	EXPANSION TANK
PIPE VALVES	
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
PLUMBING SYMBOLS	
	PIPE UP
	PIPE DOWN
	PIPE TEE DOWN
	PIPE TEE UP
	CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)



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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
07/29/2025




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THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY
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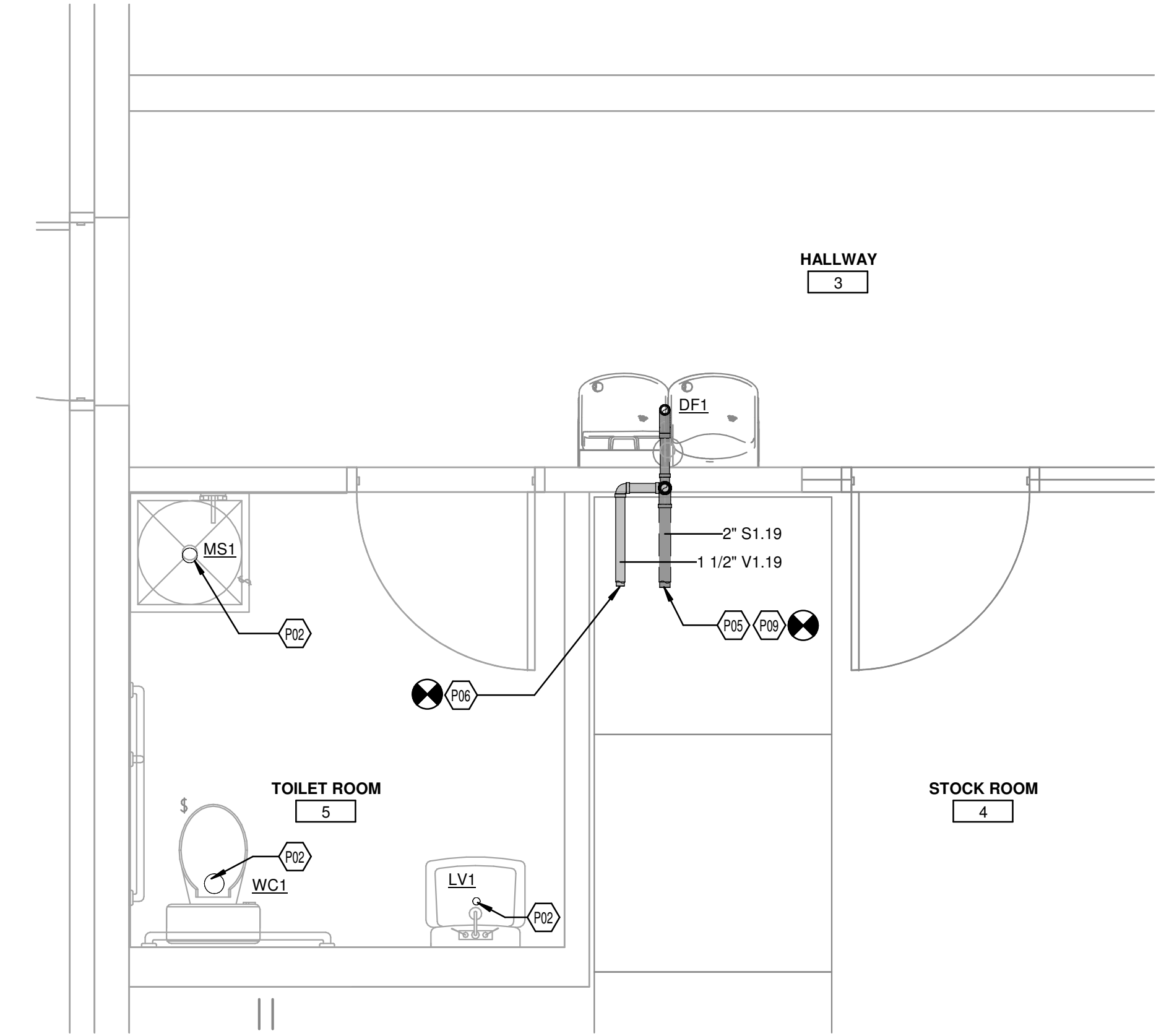
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PLUMBING PLANS

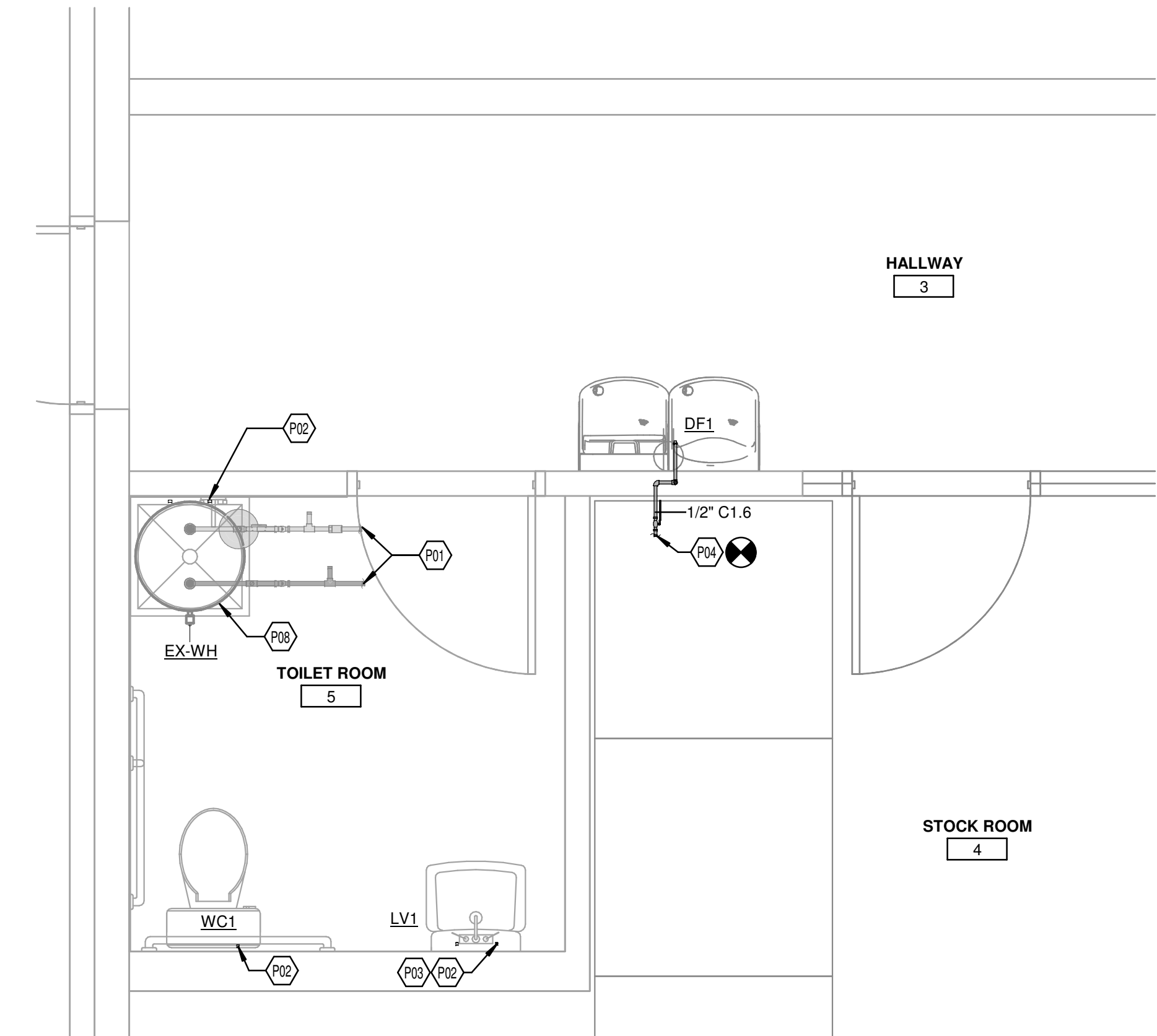
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KEYED NOTES	
P01	DEMOLISH EXISTING COLD/HOT WATER SERVING EXISTING RESTROOM TO BE DEMOLISHED.
P02	NEW FIXTURE TO REPLACE EXISTING FIXTURE. EXTEND AND CONNECT NEW PIPING AS NECESSARY FOR REPLACEMENT. FIELD VERIFY EXISTING PIPE MATERIAL TYPE, SIZE, AND LOCATION PRIOR TO MAKING CONNECTION. REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR PRECISE DIMENSIONS OF INTENDED LOCATION.
P03	PROVIDE NEW ASSE 1070 RATED THERMOSTATIC MIXING VALVE.
P04	EXTEND DOMESTIC WATER TO EXISTING 3/4" MIN. WATER MAIN. PROVIDE SHUT-OFF, BACKFLOW PREVENTER, PRESSURE REGULATING VALVE, METER, AND REMOTE READER IF REQUIRED. INSULATE ENTIRE LINE WITHIN BUILDING. FIELD VERIFY EXACT LOCATION OF EXISTING DOMESTIC WATER PRIOR TO INSTALLING ANY PIPING. REPORT DIFFERENCES TO ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
P05	CONNECT NEW SANITARY PIPING TO NEAREST EXISTING 4" MINIMUM SANITARY MAIN. FIELD VERIFY EXACT LOCATION, INVERT, DIRECTION OF FLOW, AND SYSTEM TYPE PRIOR TO STARTING WORK. CONTACT ENGINEER WITH ANY DIFFERENCES OTHER THAN WHAT IS SHOWN ON PLAN. PROVIDE CAMERA SCOPING TO ENSURE PIPING SIZES AND LOCATION.
P06	CONNECT NEW VENT PIPING TO NEAREST EXISTING VENT MAIN. FIELD VERIFY EXACT LOCATION, INVERT, MATERIAL, SIZE AND SYSTEM TYPE PRIOR TO STARTING WORK. CONTACT ENGINEER WITH ANY DIFFERENCES OTHER THAN WHAT IS SHOWN ON PLAN.
P07	EXTEND AND CONNECT PREVIOUSLY EXISTING RTU NATURAL GAS SUPPLY PIPING TO NEW RTU.
P08	EXISTING WATER HEATER TO REMAIN AND SERVE EXISTING RESTROOM. 3/4" MIN. COLD AND HOT WATER MAINS TO REMAIN AND CONNECT TO NEW REPLACEMENT FIXTURES.
P09	EXISTING VENT AND SANITARY PIPING SERVING EXISTING EXISTING RESTROOM TO BE DEMOLISHED.

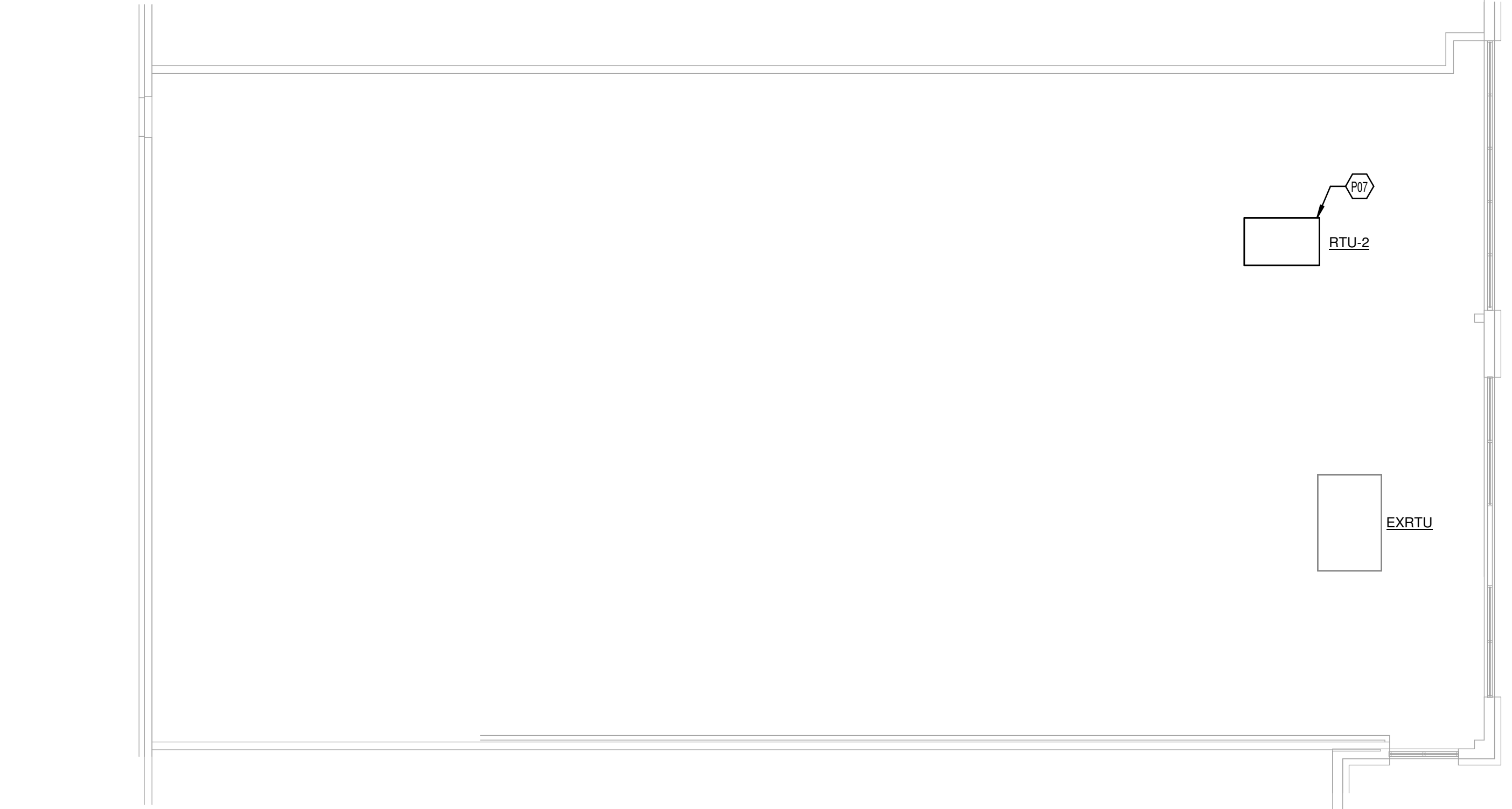
Pipe Type Legend		
Mark	System Name	Pipe Material
C1.6	C1 - Domestic Cold Water	6 - Copper - Type L - ASTM B88
S1.19	S1 - Sanitary	19 - PVC - Schedule 40 - ASTM D1785/D2665
V1.19	V1 - Vent	19 - PVC - Schedule 40 - ASTM D1785/D2665



① ENLARGED PLUMBING SANITARY AND VENT PLAN
1/2" = 1'-0"



② ENLARGED PLUMBING WATER PLAN
1/2" = 1'-0"



③ PLUMBING WATER & GAS PLAN - ROOF
1/8" = 1'-0"



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PLUMBING -
SPECIFICATIONS

DRAWN BY
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AJK
JOB NUMBER
253003
SHEET NAME

SECTION 22 05 00.00 - COMMON WORK RESULTS
FOR PLUMBING

GENERAL.
The General Provisions of the Contract including the General and Supplemental Conditions and General Requirements apply to the work in this section. Before submitting a bid, examine documents of all other trades, visit the site and get acquainted with all conditions that may in any way affect the execution of this contract. Contractor shall obtain and pay for all permits, certificates of inspection and approvals required. Submittal of a bid indicates that the contractor has examined the drawings, specifications, and had an opportunity to visit the site to be able to provide a comprehensive complete bid to include providing all materials, labor, tools, and equipment required to provide complete plumbing systems as outlined in Division-22. Clearly state all full lead amps (FLA), voltages and model numbers on all submittals. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories. Provide wiring diagrams: For power, signal, and control wiring.

APPLICABLE STANDARDS
The installation of all plumbing work shall conform to all the following, but not limited, applicable local and municipal utility standards, rules and regulations, plumbing codes and statutes having jurisdiction. All plumbing fixtures, equipment, accessories, and appearances shall be NSF/ANSI 61-372 compliant. 2018 International Building Code. 2018 International Plumbing Code;

American Society for Test Materials (ASTM);
National Sanitation Foundation (NSF);
American Standards Association (ASA);
Underwriters Laboratories (UL);
National Fire Protection Association (NFPA);
National Electric (NEC).

PLANS AND SPECIFICATIONS
Obtain the latest owner design and construction standards document(s). Comply with all owner-specific requirements in addition to requirements set forth in these specifications and accompanying drawings. Should there be a conflict, the owner's standards shall take precedence, unless prevailing codes and regulations mandate otherwise. The drawings that accompany these specifications are diagrammatic. Wherever possible make use of submittal data and verify all dimensions on site. Provide additional fittings as required by site conditions and codes at no additional cost to conform to the structure, avoid obstructions, provide required service clearances and preserve headroom. Do not scale from drawings, all measurements should be taken in the field.

EXISTING CONDITIONS
Where new plumbing systems are required to be connected to existing plumbing systems, provide all camera scoping and dye testing necessary to verify the exact location, size, invert elevation, pressure, pipe integrity, and system type to ensure a proper connection is executed. The contractor shall notify the engineer immediately if it is found a proper connection cannot be executed. **CUTTING, PATCHING AND DEMOLITION** The contractor shall be responsible for damages to the grounds, walks, road, building, piping systems, electrical systems, and their equipment and contents, caused by leaks in the piping systems being installed or having been installed by him. The contractor shall repair at his expense all damaged so caused. All repair work shall be done as directed by and in such manner as satisfactory to the architect.

Owner reserves the right to make emergency repairs as required to keep equipment in operation without voiding the contractor's guarantee bond nor relieving the contractor of his responsibilities during the bonding period. Cut and drill all openings in roofs, walls, and floors required for the installation. Neatly patch all openings cut. Hold cutting and patching to a minimum by arranging with other contractors for all sleeves and openings before construction is started. When drilling/cutting concrete slabs, utilize ground penetrating radar (GPR) and/or X-ray scanning equipment to verify the location is free from obstructions, including but not limited to: structural rebar/strands/tendons, electrical conduit/wiring, and/or piping/ductwork.

EXCAVATION AND BACKFILL
Perform all excavation and backfilling required for this work. Contractor shall consult with utility company prior to beginning excavation. At a minimum, all piping shall be laid on a bed of sand, 6" deep, well tamped into place and properly graded to permit the pipe to have an even bearing throughout its entire length. Sand shall be installed around the piping in 6" lifts to a point 6" above the piping.

WARRANTY
This contractor shall warrant that all work under this section shall be free of defective work, materials and parts for a period of one year after acceptance of the work and shall repair, revise, and replace, at no cost to the owner, any such defects occurring within the warranty period. Use of Electronic Drawings from the Owner's Design Team If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer. "Request Drawings" form can be accessed, filled out and submitted at <http://www.klhengrs.com> (right hand side of page - Contractor Resources). Direct access to this form can be found here: <http://files.klhengrs.com/requestdrawings.html>

22 05 03.00 - SUBMITTALS FOR PLUMBING
Provide submittals in accordance with the Contract Documents. In addition to Division 01, the Contractor is advised to review and comply with the requirements articulated within each Division and within each section of that Division. Some Divisions may include a division-specific "Submittal Requirements for" section. Where this section exists, it articulates additional requirements for submittals that apply to the work of that Division. The following requirements help to identify, track and keep the project organized for all parties involved. They are necessary to ensure a timely turnaround and an appropriate technical review. Submittals that do not conform to the administrative requirements are rejected and returned, without technical review. Supply submittals for each section: Submittals shall be supplied on a section-by-section and type-by-type basis. For example, independent product data submittals shall be furnished for each section that requires product data submittals. Independent shop drawing submittals shall be furnished for each section that requires shop drawings.

Separate PDF file packages shall be supplied for each section, for each submittal type. Each PDF shall represent a single standalone submittal. Include a transmittal: Transmittals shall enumerate each submittal for each section of each type and iteration. Include cover sheet / title page: The cover sheet shall include the information identified in the contract documents. It shall be included as the first page of each electronic and/or hardcopy document-based submittal. An editable and printable PDF form created with editable fields and specifications and appearance is available from KLH upon request. It is also downloadable from the KLH website at www.klhengrs.com. Include an index: The index shall enumerate the contents of the submittal. Include checklists: Where checklists are included with the specifications, complete and include them within the appropriate submittal. Supply complete submittals: Complete submittals of each type are required. Partial submittals will be rejected. Where a section requires a product data submittal, all product data for that section shall be supplied together, at one time, as one complete submittal. When resubmittal is required (e.g. Revise and Resubmit) the revised submittal shall be more complete, more accurate and more contract-compliant than its rejected predecessor. The submittal number (for each section and type) shall increment for each subsequent submittal (00 – Original submission, 01 – First Resubmission, 02 – Second Resubmission, etc...). Resubmittals shall include a copy of the reviewers comments supplied with the prior submittal rejection and shall be amended with a description of the specific action taken to comply with the reviewer's comments. The absence of this on resubmittal is cause for rejection. Name electronic files to match the submittal ID and cover sheet: The electronic file name of submittals shall match the submittal ID included on the submittals cover page. For example, The original/first product data submittal for Section 220523 would be labeled as "220523.00-PD-00"; the first resubmittal of same shall be labeled "220523.00-PD-01". The original/first shop drawings submittal file for the same section would be labeled "220523.00-SD-00"; the first resubmittal of same shall be labeled "220523.00-SD-01". If expressly permitted by the Owner and the terms of the Contract, editable electronic drawings may be made available for the creation of shop and as-built drawings upon request. Drawings will be made available at the discretion of the Engineer. "Request Drawings" form can be accessed, filled out and submitted at <http://www.klhengrs.com> (right hand side of page - Contractor Resources). Direct access to this form can be found here: <http://files.klhengrs.com/requestdrawings.html>

22 05 17.00 – SLEEVES AND SLEEVE SEALS FOR PLUMBING PIPING

SLEEVES
Steel Pipe: ASTM A 53, Type E, Grade B, Schedule 40, galvanized, plain ends.

EXECUTION
Install steel pipe sleeves two sizes larger than pipes passing through floors, rated walls, building foundation walls or masonry construction. Sleeves are not required for core drilled holes.

For sleeves that will have sleeve-seal systems installed, select sleeves of size large enough to provide 1-inch annular clear space between piping and concrete slabs and walls.

Install sleeves in concrete floors, concrete roof slabs, and concrete walls as new slabs and walls are constructed. Permanent sleeves are not required for holes in slabs formed by molded-PE or -PP sleeves. Cut sleeves to length for mounting flush with both surfaces. Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches above finished floor level. Using grout, seal the space outside of sleeves in slabs and walls without sleeve-seal system.

Install sleeves for pipes passing through interior partitions. Cut sleeves to length for mounting flush with both surfaces. Install sleeves that are large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation. Seal annular space between sleeve and piping or piping insulation: use joint sealants appropriate for size, depth, and location of joint.

Seal sleeves and piping with material rating equivalent to the wall rating. Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials where required.

22 05 23.00 - GENERAL DUTY VALVES
Submittal Requirements
Product Data: For each type of product indicated. **GENERAL.**
Provide stops or isolation valves on domestic water supplies to isolate hot and cold water to each fixture, including all equipment and equipment provided by others. Access shall be provided to all valves. Provide fire-rated access panel(s) to maintain full access to concealed valves. Ball valves - 2 inch and smaller: Lead-Free, 150 psi @ 250°F minimum pressure rating, cast bronze body, blowout-proof stem. Butterfly Valves - 3" and up: Ductile Iron Butterfly Valve, 200 WOG, Lug Body, Lever Operator. Approved Manufacturers: Milwaukee Valve, NIBCO, and Watts Water Technologies Co. Valves to conform to: MSS-SP-110 Type I MSS-SP-67 Type I, NSF/ANSI -61/372. Check valves - to be same size as system piping it accompanies. Lead-free, bronze body, 250 WOG, non-shock, spring check valve. Conforms to the following standard(s): MSS-SP-80 I, NSF/ANSI -61/372

22 05 29.00 – HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

GENERAL
Provide hangers, supports, clamps, attachments, and structural steel members where required to support piping and equipment from building structure. Support of piping from the decking or equipment is prohibited.

Arrange for grouping of parallel runs of horizontal piping supported together on field-fabricated, heavy-duty trapeze hangers where possible. Trapeze hangers shall conform to: MSS SP-69, Type 59. Horizontal-Piping Clamps: Provide Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3) for suspension of pipes requiring clamp flexibility and up to 4 inches of insulation. Vertical-Piping Clamps: Provide extension pipe or Riser Clamps (MSS Type 8) for support of pipe risers. Hangers shall be sized to allow insulation to pass through unobstructed. Hanger and support types: Hangers: Provide adjustable, Steel Clevis Hangers (MSS Type 1) for suspension of noninsulated or insulated, stationary pipes. Horizontal-Piping Clamps: Provide Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3) for suspension of pipes requiring clamp flexibility and up to 4 inches of insulation. Vertical-Piping Clamps: Provide extension pipe or Riser Clamps (MSS Type 8) for support of pipe risers. Hangers and supports shall be placed at all changes in direction, valves and equipment. The maximum horizontal spacing of cast-iron pipe hangers can be 10' where 10-foot lengths of pipe are installed. Piping shall also be supported at each change in direction, valves and equipment. Clevis-type hangers shall and supports shall conform to: MSS SP-58, Type 1-58.

22 05 53.00 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

PIPING
Provide self-adhesive pipe labels with white background and black lettering, contact type with permanent adhesive backing. Include identification of piping service using same designations or abbreviations as used on the drawings and an arrow indicating flow direction. **EQUIPMENT**
Provide self-adhesive plastic equipment labels with white background and black lettering, contact type with permanent adhesive backing, 160 degree F temperature. Include equipment's drawing designation and specification section number where equipment is specified.

22 07 19.00 – PLUMBING SYSTEM INSULATION

GENERAL
Insulation shall be listed and labeled per ASTM E 84 for plenum installations employing slip on techniques. Provide insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of piping including fittings, valves, and specialties. Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application. **PIPING SYSTEMS REQUIRING INSULATION**
Insulate domestic cold water piping, associated fittings and valves with flexible elastomeric 1/2" wall thickness insulation. Insulate domestic hot water piping, associated fittings and valves with 1" thick flexible elastomeric, 1-1/2" thick fiberglass insulation or per local energy code, whichever greater. Insulate waste piping above ceilings that receive condensate with 1/2" wall thickness insulation. Insulate exposed sanitary drains, domestic water, domestic hot water, and stops for plumbing fixtures for people with disabilities. **FLEXIBLE ELASTOMERIC INSULATION**
Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials. Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Aeroflex USA, Inc.; Aerocel, Armacell LLC; AP Armaflex, K-Flex USA; FIBERGLASS INSULATION Fiberglass piping insulation: ASTM C 547, Class 1 Encase pipe fittings insulation with one-piece pre-molded PVC fitting covers. Vapor Barrier Material: Paper-backed aluminum foil, except as otherwise indicated, strength and permeability rating equivalent to adjoining pipe insulation jacketing. Staples, Bands, Wires, and Cement: As recommended by insulation manufacturer for applications indicated. Adhesives, Sealers, and Protective Finishes: As recommended by insulation manufacturer for applications indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Armstrong World Industries, Inc., Owens-Corning Fiberglass Corp., Johns Manville. **ADHESIVES**
Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated. Insulation for handicap accessible fixtures All handicap lavatory p-trap and angle stop assemblies shall be insulated with trap wrap protective kit manufactured by Proflo model PF202WH or equal. Abrasion resistant, anti-microbial vinyl exterior cover shall be smooth. For traps, the insulation shall have a cleanout nut cap to allow service to the trap without disassembly. For stops, the insulation shall have a lock lid that prevents tampering but allows access without removal of the insulation. Fasteners shall remain substantially out of sight. Manufacturers: subject to compliance with requirements: Proflo, Truebro, Plumberex

22 11 16.00 – DOMESTIC WATER PIPING

Submittal Requirements
Product Data: For each type of product indicated. **GENERAL**
Install piping concealed from view unless noted otherwise, free of sags and bends. Do not enclose, cover, or put piping into operation until it has been inspected and approved by authorities having jurisdiction. Clean and disinfect potable domestic water piping using approved procedures by authorities having jurisdiction or AWWA C651, whichever is more rigorous. Install at right angles; diagonal runs are prohibited unless otherwise shown. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Coordinate all piping with all other trades.

Provide water pressure regulators where necessary to limit the incoming water pressure to 80 psi above the building. **DOMESTIC WATER PIPING ABOVE GRADE:** Hard copper tube, ASTM B 88, Type L; wrought-copper, solder-joint fittings; and soldered joints. Solder Filler Metals: ASTM B 32, lead-free alloys. Flux: ASTM B 813, water flushable. Type "L"; copper pressure-seal joint; and pressure-seal joint systems. **CATHODIC PROTECTION**
Provide dielectric insulation at points where copper or brass pipe comes in contact with ferrous piping, reinforcing steel or other dissimilar metal in structure.

22 11 19.00 – DOMESTIC WATER PIPING SPECIALTIES

Submittal Requirements
Product Data: For each type of product indicated. Manufacturers: Subject to compliance with requirements, available products that may be incorporated into the work include, and are limited to, the following: Conbraco Industries, Inc., Watts Water Technologies Co., Zurn Industries, LLC., Thermomegatch, Acom Engineering Co., and Caleffi, N. America, MIFAB, Inc., Precision Plumbing Products, Inc., Sioux Chief Manufacturing Company, Inc., Jay R. Smith Mfg. Co., Provent Systems, Rector Seal. **DUAL CHECK VALVE BACKFLOW PREVENTER**
Provide a dual check valve backflow preventer that complies with ASSE 1022 at connection of domestic water supply to any permanently connected potable water dispensing equipment such as ice makers, coffee machines, and beverage dispensers or where indicated in the contract documents. Beverage dispensing equipment backflow preventer Provide a continuous pressure backflow preventer with stainless steel body, threaded connections and complies with ASSE 1022. **BALANCING VALVES**
Provide balancing valves where required for proper balancing of water systems as shown on the contract documents. Balancing valves shall be equal to Red-White Valve Corporation model 9517AB (NPT) or model 9519 (solder). Valve shall have brass body, globe valve regulation and isolation properties, fixed orifice design for precise measurement, integral memory stop to ensure repeatable setting, full shutoff without affecting memory settings, high and low pressure metering points, precision indicator windows, rugged top set hand-wheel assembly, pressure rating of 300 psi, and temperature rating of 15 deg. F to 250 deg. F. **VACUUM BREAKERS**
Vacuum breakers shall be equal to Watts model LF288A for piping connections or Watts LF8 series for hose connections. Vacuum breakers shall comply with ASSE 1001 for piped connections, ASSE 1011 for hose connections, bronze body and threaded connections with rough bronze finish. **STRAINERS**
Provide lead-free wye-pattern strainer rated for 125 psig minimum, bronze body, threaded connections, stainless steel screen with round perforations of 0.020 inch and pipe plug drain. Provide strainers on supply side of each pressure reducing valve, solenoid valve and pump. **WATER HAMMER ARRESTERS**
Provide water-hammer arresters in water piping according to PDI-WH 201. Standard: ASSE 1010 or PDI-WH 201. Type: Metal bellows or copper tube with piston. Size: ASSE 1010, sizes AA and A through F, or PDI-WH 201, sizes a through F.

22 13 16.00 - SANITARY, WASTE AND VENT PIPING SYSTEM

Submittal Requirements
Product Data: For each type of product indicated. **GENERAL**
Provide a complete soil, waste and vent system in the building and on the site as indicated on the drawings and as specified herein. Above ground soil, waste and vent piping within buildings including soil stacks, vent stacks, horizontal branches, traps, and connections to fixtures and drains. Underground building drain piping including mains, branches, traps, connections to fixtures and drains, and connections to stacks, terminating at connection to existing sanitary sewer. **INTERIOR PIPING ABOVE GRADE**
No-Hub cast iron soil, waste, and vent piping and fittings 1-1/2" and larger shall conform to ASTM A-888. Pipe couplings shall conform to ASTM C 1277 and CISP1 310. Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely supported or secured to maintain such alignment. Soil, waste and vent piping smaller than 1-1/2" shall be Type "M" copper and conform to ASTM B-306. **BELOW GRADE PIPING**
Solid wall schedule 40 PVC pipe and fittings 2" and larger shall conform to ASTM D 2665 / ASTM D 1785 DWV. Fittings shall conform to ASTM D 2665, made to ASTM D, DWV patterns and fit schedule 40 pipe. Piping alignment shall be as indicated on the drawings using approved wye branches or eight bands for direction changes and shall be surely set and buried to maintain such alignment. Soil, waste and vent piping smaller 1-1/2" and smaller below grade shall not be permitted. Slope piping according to local codes. Protection shall be given to all footings and other structural elements during underground work adjacent to such items. Refer to architectural and/or structural drawings for locations. Vent all fixtures, connect branch vents to main vent risers at least six inches above flood rim of fixtures. Pitch vent lines back to soil or waste pipe, free of drops and sags. Cleanouts shall be full size of pipe up to 4", and 4" for larger sizes. For underground and concealed lines, provide cleanouts in accessible positions at each right angle turn and at intervals not to exceed fifty feet. In floors, install flush with finish floor with extension pipe from cleanout wye.

22 16 13.00 - NATURAL GAS PIPING SYSTEMS

Submittal Requirements
Product Data: For each type of product indicated. **GENERAL**
Plumbing contractor shall be responsible for installing gas piping run-outs to all gas-fired equipment, including equipment supplied by the HVAC and electric contractors. Piping shall be installed full-size (as indicated on the drawings) to each units' gas inlet connection, burner, regulator, etc. Plumbing subcontractor shall provide gas

cock and make final connections. Connections to each gas-fired equipment item shall include a drip leg and shutoff gas cock. Comply with equipment manufacturer's instruction. For connections to gas-fired rooftop equipment, plumbing contractor shall be responsible for the roof penetration and shall install the gas piping through the roof in a location that has been coordinated with the HVAC contractor. **BUILDING DISTRIBUTION PIPING:**
All piping from meter/regulator to gas fired equipment connections shall be black steel. Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade B. Pipe size 2" and smaller: Malleable-Iron Threaded Fittings Malleable-Iron Threaded Fittings: ASME B16.3, Class 150, standard pattern. Press-Connect fittings: Carbon steel, cold-pressed, ANSI LC4/CSA 6.32. **GENERAL DUTY VALVES:**
Metallic valves 2 inches and smaller shall comply with ASME B16.33, cold working pressure of 125 psig. Provide one-piece ball valves with bronze body, chrome-plated brass ball, blowout proof stem and seat, and bronze trim complying with MSS SP-110. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, and limited to, the following: Milwaukee valve, NIBCO, and Watts Water Technologies co.

22 30 01.00 - POINT OF USE THERMOSTATIC MIXING VALVES

Submittal Requirements
Product Data: For each type of product indicated. **GENERAL**
Thermostatic mixing valves shall be provided for all public hand washing sinks and lavatories and shall be ASSE 1070 listed, lead free, sweat connections, 125 psi operating pressure and have integral checks. Set outlet temperature of thermostatic mixing valve to 105 degrees F. Point-of use thermostatic mixing valves shall be equal to Powers LFG480. Route tempered water to hot water side of sink and lavatories. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and are limited to, the following: Symmons, Acom Engineering, Powers, Bradley

22 40 00.00 - PLUMBING FIXTURES

Submittal Requirements
Product Data: For each type of product indicated. **GENERAL**
Refer to plumbing fixture schedule and install per the manufacturer's installation and operation manual. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, and are limited to, the following: American Standard, Kohler Co., Zurn Industries, LLC.



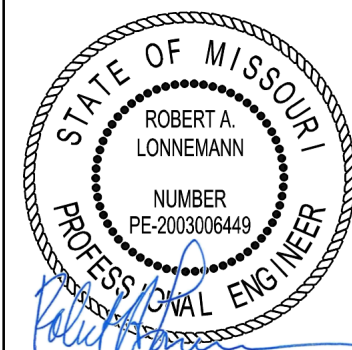
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1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

PLUMBING - DETAILS & SCHEDULES

DRAWN BY

NMS

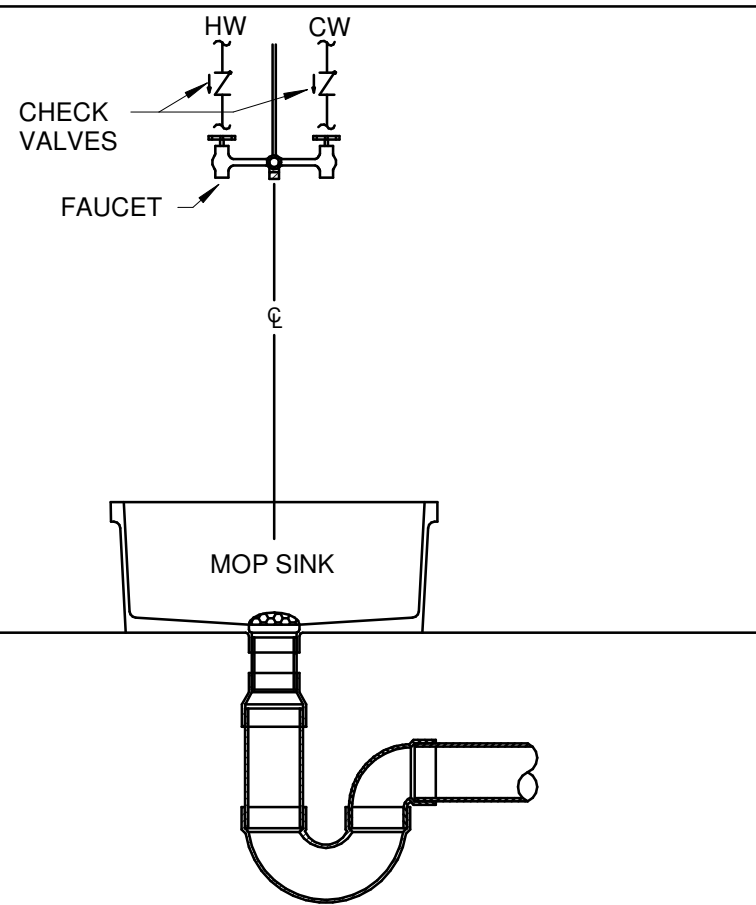
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AJK

25303

SHEET NAME

P-601



NOTES:

1. SEAL TOP OF SINK TO WALL USING A CONTINUOUS BEAD OF SILICONE CAULKING, WHEREVER SINK ABUTS WALL.
2. FOR EXTERIOR MASONRY AND SOLID WALLS APPLICATION PROVIDE SURFACE MOUNT WATER SUPPLY LINES. WHEN POSSIBLE ROUTE WATER SUPPLY LINES INSIDE INTERIOR STUD WALLS.
3. INCLUDE MOP HANGER, HOSE & HOSE BRACKET, WALL AND BUMPER GUARDS.

224000.00-02 - MOP SINK DETAIL

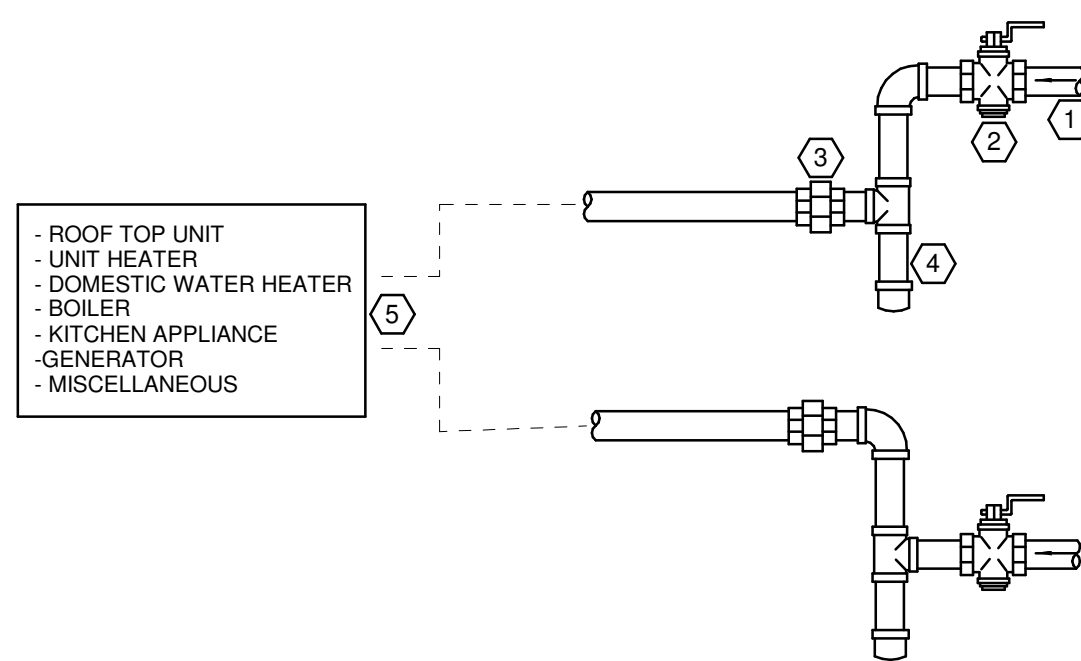
SCALE: NONE

GENERAL NOTES:

- A. PIPING ARRANGEMENTS SHOWN ARE SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER

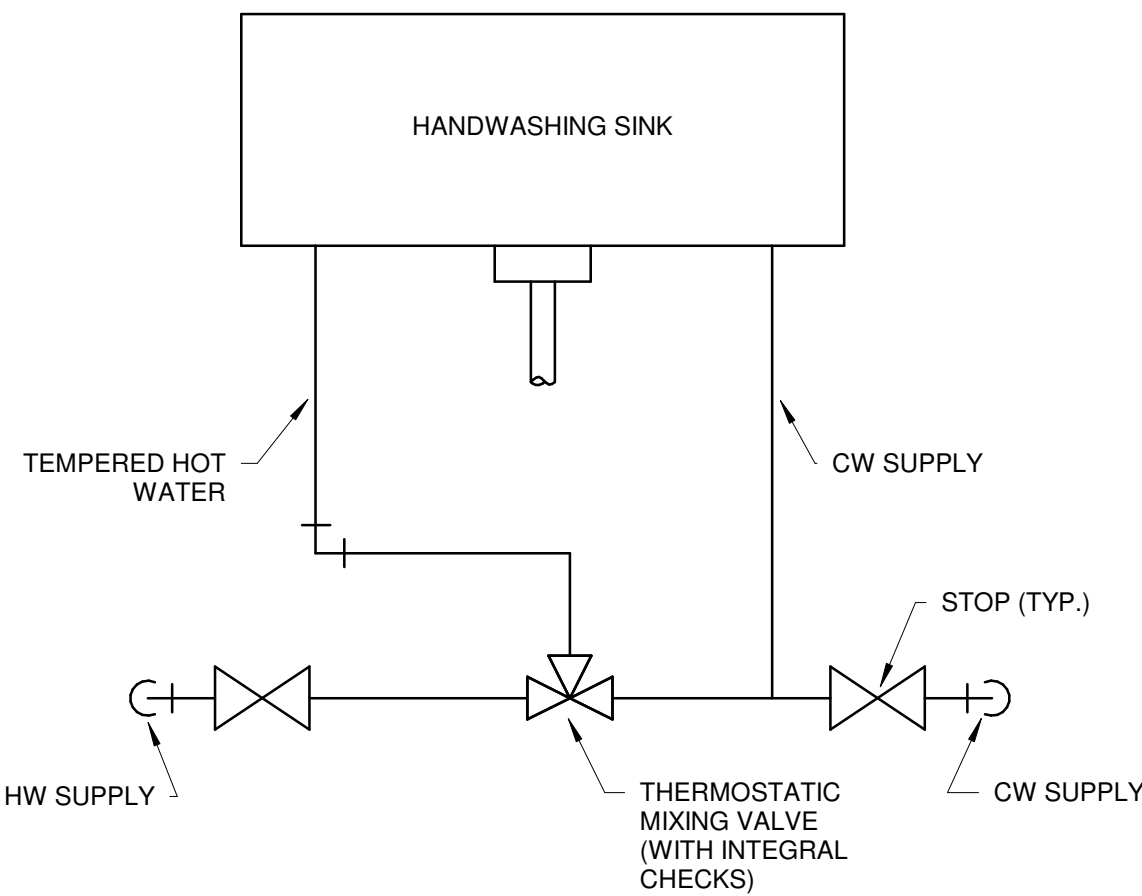
 KEYED NOTES:

1. GAS SUPPLY.
2. APPROVED GAS SHUT OFF VALVE.
3. APPROVED UNION WITHIN 6'-0" OF APPLIANCE OR EQUIPMENT SERVED.
4. MINIMUM 6" LONG SEDIMENT TRAP WITH THREADED CAP. INSTALL CAP WITH PROPER CLEARANCE TO PROVIDE SERVICABILITY.
5. TO UNIT INLET CONNECTION.



221613.00-11 - TYPICAL GAS CONNECTIONS TO EQUIPMENT

SCALE: NONE

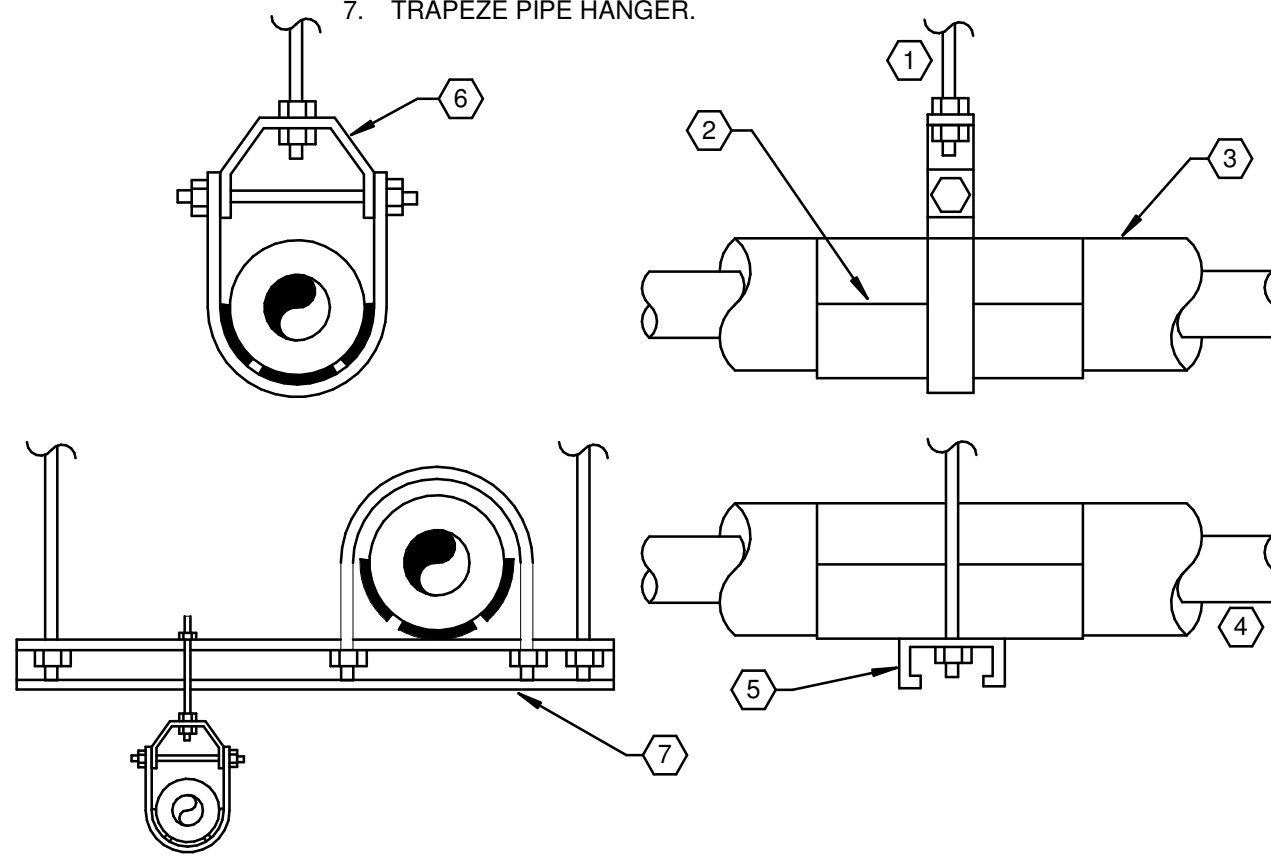


223001.00-01 - THERMOSTATIC MIXING VALVE TMV DETAIL

SCALE: NONE

 KEYED NOTES:

1. HANGER ROD.
2. GALVANIZED STEEL PIPE SHIELD AND 360° CALCIUM SILICATE INSULATION HANGER SUPPORT.
3. PIPE INSULATION.
4. PIPE.
5. UNISTRUT CHANNEL.
6. CLEVIS HANGER.
7. TRAPEZE PIPE HANGER.



220529.00-01 - PLUMBING PIPE HANGER INSTALLATION

SCALE: NONE



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COLUMBUS, OHIO
KLH JOB #: 27551

MOP SINK SCHEDULE															
PRODUCT					GENERAL		MISC	VALVE/FAUCET INFORMATION		FIXTURE UNITS				FLOW INFORMATION	TRAP INFORMATION
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE NPG	FIXTURE MODEL	DPU	WSFU	CU SFU	RM SFU	FLUID FLOW	INTEGRAL TRAP
MS1	MOP SINK	FIAT	MSB100424	22 40 00.00	REFER TO PLAN	NEW	..	FIAT	830AA	2	3	2.25	2.25	..	NO

TANK TYPE WATER CLOSET SCHEDULE															
PRODUCT					FLOW INFORMATION	GENERAL		NISC	VALVE/FAUCET INFORMATION			FIXTURE UNITS			TRAP INFORMATION
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	GALLONS PER FLUSH (GAL/FS)	LOCATION	STATUS	ACCESSORIES	FIXTURE WFG	FIXTURE MODEL	DFU	WSFU	CM SFU	IM SFU	INTEGRAL TRAP
MC1	TANK TYPE WATER CLOSET	ZURN	Z5560	22 40 00 00	1.6	--	NEW	FURNISH ADA CLOSET AND TANK, ADA OPEN FRONT SEAT, SELF-RESTAINING HINGE, FLOOR FLANGE, CLOSET BOLT(S) AND CAPS, MAX RINGS, SUPPLY STOPS AND TUBE. FLUSH CONTROL MUST BE LOCATED ON THE WIDE ACCESS SIDE OF THE WC (OPPOSITE OF THE WALL)	--	--	4	5	5	--	YES

LAVATORY SCHEDULE															
PRODUCT					GENERAL		HISC	VALVE/FAUCET INFORMATION			FIXTURE UNITS		FLOW INFORMATION		TRAP INFORMATION
NAHK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE NFG	FIXTURE MODEL	DFU	MSFU	CU SF IN	HFU SFU	FLUID FLOW	INTEGRAL TRAP
LV1	LAVATORY	AMERICAN STANDARD	0120224.020 CORRADE WALL-MOUNT SINK	22 40 00.00	REFER TO PLAN	NEW	FURNISH LAVATORY, SUPPLY STOPS AND TUBES, DRAIN AND VENTING PROTECTION. PROVIDE TOILESS FAUCET.	AMERICAN STANDARD	7025.103	1	2	1.5	1.5	--	NO

TANK TYPE ELECTRIC WATER HEATER SCHEDULE																															
PRODUCT						MISC		GENERAL		ELECTRICAL	DESIGN CONDITIONS			ELECTRICAL																	PRODUCT
MARK	DESCRIPTION	MANUFACTURER	MODEL	OPERATING WGT LBS	SECTION NUMBER	STORAGE VOLUME (GAL)(LFP)	ACCESSORIES	LOCATION	STATUS	EFFICIENCY	EMT	LMT	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CN TYPE	CN PURCHASED BY	CN INSTALLED BY	CN WIRED BY	NC TYPE	NC PURCHASED BY	NC INSTALLED BY	NC WIRED BY	DC TYPE	DC PURCHASED	DC INSTALLED	DC WIRED	REQUIRED TO REPLY FAULTY CORRECT	FAULT CURRENT	EMERGENCY	MARK	
EX-WH	TANK TYPE GAS FIRED WATER HEATER	STATE	ES66S0MSK 200	80	22 34 00 00	6	EX	EX	EXISTING	--	40	140	EX-WH	EX-WH - 120V/1PH, 1.65KW HTG	EX	EX	EX	EX	--	--	--	--	--	EX	EX	EX	FALSE	EX-WH: --	FALSE	EX-WH	

DRINKING FOUNTAIN SCHEDULE																																		
PRODUCT					GENERAL		MISC	VALVE/FAUCET INFORMATION		FIXTURE UNITS		FLOW INFORMATION	TRAP INFORMATION	ELECTRICAL																PRODUCT				
MARK	DESCRIPTION	MANUFACTURER	MODEL	SECTION NUMBER	LOCATION	STATUS	ACCESSORIES	FIXTURE WFG	FIXTURE MODEL	DPU	MSFU	CM SFU	HW SFU	FLUID FLOW	INTEGRAL TRAP	CONNECTION MARK	ELECTRIC CONNECTION SUMMARY	CM TYPE	CM FURNISHED BY	CM INSTALLED BY	CM WIRED BY	CM TYPE	CM FURNISHED BY	CM INSTALLED BY	CM WIRED BY	DC TYPE	DC FURNISHED BY	DC INSTALLED BY	DC WIRED BY	REQUIRED TO MEET FAULTY CURRENT	FAULT CURRENT	EMERGENCY	MARK	
DF1	DRINKING FOUNTAIN	ELKAY	LZSTL64SLK	22 40 00 00	REFER TO PLAN	NEW	WITH BOTTLE FILLER AND CANE APRON	--	--	0.5	0.25	0.25	--	0.13	NO	DF1	DF1 - 120V/1PH, GA FLA	MAN	NFR	NFR	NFR	NG	NFR	NFR	NFR	CP	EC	EC	EC	EC	FALSE	DF1 --	FALSE	DF1

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REVISION	DATE
ISSUE FOR PERMIT, LANDLOAD, PRICING	06/18/25
STRUCTURAL REVISION	07/21/25

DESIGN LOADS

- | | |
|---|--------------------|
| 1. BUILDING CODE | 2018 BUILDING CODE |
| 2. RISK CATEGORY | II |
| 3. MINIMUM ROOF LIVE LOAD | 20 PSF |
| 4. GROUND SNOW LOAD | 20 PSF |
| 5. WIND | |
| A. BASIC WIND SPEED, (3-SEC GUST) VULT | 109 MPH |
| B. EXPOSURE CATEGORY | C |
| 6. SEISMIC | |
| A. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, Ss | 0.099 |
| B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, S1 | 0.068 |
| C. SITE CLASS (ASSUMED) | D |

GENERAL

- THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK SHALL BE COORDINATED WITH THE APPROPRIATE CONTRACTOR(S). PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
- STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
- STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
- ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.
- CONTRACTOR IS RESPONSIBLE FOR STRUCTURAL INTEGRITY AND STABILITY OF EXISTING STRUCTURE DURING DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE TO DESIGN TEMPORARY SHORING AS REQUIRED.
- VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT THE ARCHITECT OF RECORD TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF STEEL FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
- DIMENSIONS AND DETAILS OF THE EXISTING STRUCTURE ARE BASED UPON LIMITED FIELD SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT TO THE ENGINEER ANY VARIATIONS FROM THE DATA SHOWN HEREIN FOR POSSIBLE REDESIGN.
- BEFORE OR CONCURRENT WITH EXCAVATIONS FOR THE FOUNDATIONS ADJACENT TO THE EXISTING BUILDING, PROVIDE ADEQUATE SUPPORT TO THE EXISTING SUBBASE OF THE EXISTING SLAB AND THE FOUNDATIONS TO PREVENT UNDERMINING.
- DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.
- USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES.
- ASSUME EQUAL SPACING IF NOT INDICATED ON DRAWINGS.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (FY):

	YIELD	ASTM SPECIFICATION
A. W, WT SHAPES:	50 KSI	A992
B. BARS, PLATES, CHANNELS, ANGLES:	36 KSI	A36
C. SQUARE, RECTANGULAR HSS:	50 KSI	A500, GRADE C
D. ROUND HSS:	46 KSI	A500, GRADE C
E. STRUCTURAL STEEL PIPE:	35 KSI	A53, GRADE B
F. ANCHOR RODS:	36 KSI	F1554
G. ALL-THREAD RODS:	36 KSI	A36
H. HEADED STUD ANCHORS:	5 KSI TENSILE STRESS	A108, GRADES 1010-1020
- WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE 70 KSI, LOW HYDROGEN.
- ALL CONNECTIONS NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL IN THEIR BID REGARDLESS OF WHETHER THOSE ITEMS ARE INDICATED ON THE STRUCTURAL DRAWINGS. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO MISCELLANEOUS STEEL ITEMS SHOWN ON ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

EXISTING CONSTRUCTION CONDITIONS

- WORK WITH EXISTING STRUCTURES REQUIRES THOROUGH COORDINATION OF THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. THE CONTRACTOR MUST VERIFY ALL RELEVANT EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, DETAILS, ETC., BEFORE THE START OF WORK. THE CONTRACTOR MUST REPORT ANY DEVIATIONS FROM CONDITIONS OR DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO REVIEW THE DESIGN AND FOR POSSIBLE REVISION OF THE CONTRACT DOCUMENTS. BEGINNING FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS.
- THE NATURE OF STRUCTURAL DEMOLITION OR STABILIZATION IS INHERENTLY UNCERTAIN. THE EXACT CONDITION AND CAPACITY OF EACH STRUCTURAL ELEMENT CANNOT BE VERIFIED BEFORE THE START OF WORK. IT IS IMPERATIVE TO REPORT ANY ELEMENT WITH QUESTIONABLE STRUCTURAL INTEGRITY TO THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL FOR IMMEDIATE REVIEW.
- NO ATTEMPT HAS BEEN MADE TO DEFINE EACH SPECIFIC STRUCTURAL ELEMENT THAT MUST BE REMOVED, ENHANCED, OR REPLACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE CONDITION OF INDIVIDUAL ELEMENTS (PARTICULARLY RAFTERS, JOISTS, AND STRUCTURAL DECK BOARDS) TO DETERMINE WHICH ELEMENTS CAN BE SALVAGED, WHICH ELEMENTS MUST BE REPLACED, AND WHICH ELEMENTS ARE QUESTIONABLE. THE CONTRACTOR SHOULD CONSULT WITH THE ARCHITECTURAL DESIGN PROFESSIONAL AND THE STRUCTURAL DESIGN PROFESSIONAL TO DETERMINE THE APPROPRIATE PROCEDURE FOR ELEMENTS IN QUESTIONABLE CONDITION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING, BRACING, AND PROTECTION MEASURES NECESSARY TO SAFEGUARD AND MAINTAIN THE EXISTING STRUCTURE DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR THE SHORING, BRACING, AND PROTECTION OF THE EXISTING CONSTRUCTION FOR REVIEW BY THE DESIGN PROFESSIONAL. THE REVIEW OF THE SUBMITTAL BY THE STRUCTURAL DESIGN PROFESSIONAL IS ONLY FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE PLAN MUST INCLUDE THE PROPOSED CONSTRUCTION SEQUENCE. THE SHORING, BRACING, AND PROTECTION PLAN MUST BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
- DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.
- THE EXISTENCE OF UNDERGROUND STRUCTURES AND UTILITIES IS NOT KNOWN. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER OR NECESSARY AUTHORITY AND LOCATING ALL UNDERGROUND STRUCTURES AND UTILITIES.
- NO REINFORCING SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL. ADDITIONAL REINFORCEMENT OF THE SLAB MAY BE REQUIRED FOR NEW PENETRATIONS. CLUSTERED PENETRATIONS MAY NEED TO BE SEPARATED OR REGROUPED DEPENDING ON THE CONFIGURATION OF THE SLAB REINFORCING.
- PENETRATIONS ARE NOT PERMITTED IN PRIMARY STRUCTURAL MEMBERS (BEAMS AND COLUMNS) WITHOUT THE STRUCTURAL DESIGN PROFESSIONAL'S WRITTEN PERMISSION.
- THE CONTRACTOR SHALL USE METHODS AND TAKE PRECAUTIONS TO PREVENT OVERCUTTING FOR ANY NEW PENETRATIONS. SUGGESTED METHODS INCLUDE SAW CUTTING WITH CORED HOLES AT THE CORNERS OF NEW PENETRATIONS OR USING CONCRETE CHAINSAWS WITH PLUNGE-CUTTING CAPABILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE EXISTING REINFORCING. ANY REPAIR PROCEDURES NOT DETAILED IN THE CONTRACT DOCUMENTS MUST BE SUBMITTED FOR REVIEW BY THE STRUCTURAL DESIGN PROFESSIONAL. THE SUBMITTAL MUST BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE PROJECT JURISDICTION.

REQUIRED SPECIAL INSPECTIONS	
IN ADDITION TO THE REGULAR INSPECTIONS REQUIRED BY SECTION 110, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705 OF THE 2018 BUILDING CODE.	
ITEM	SECTION
STEEL CONSTRUCTION	1705.2

DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS, AS A MINIMUM:

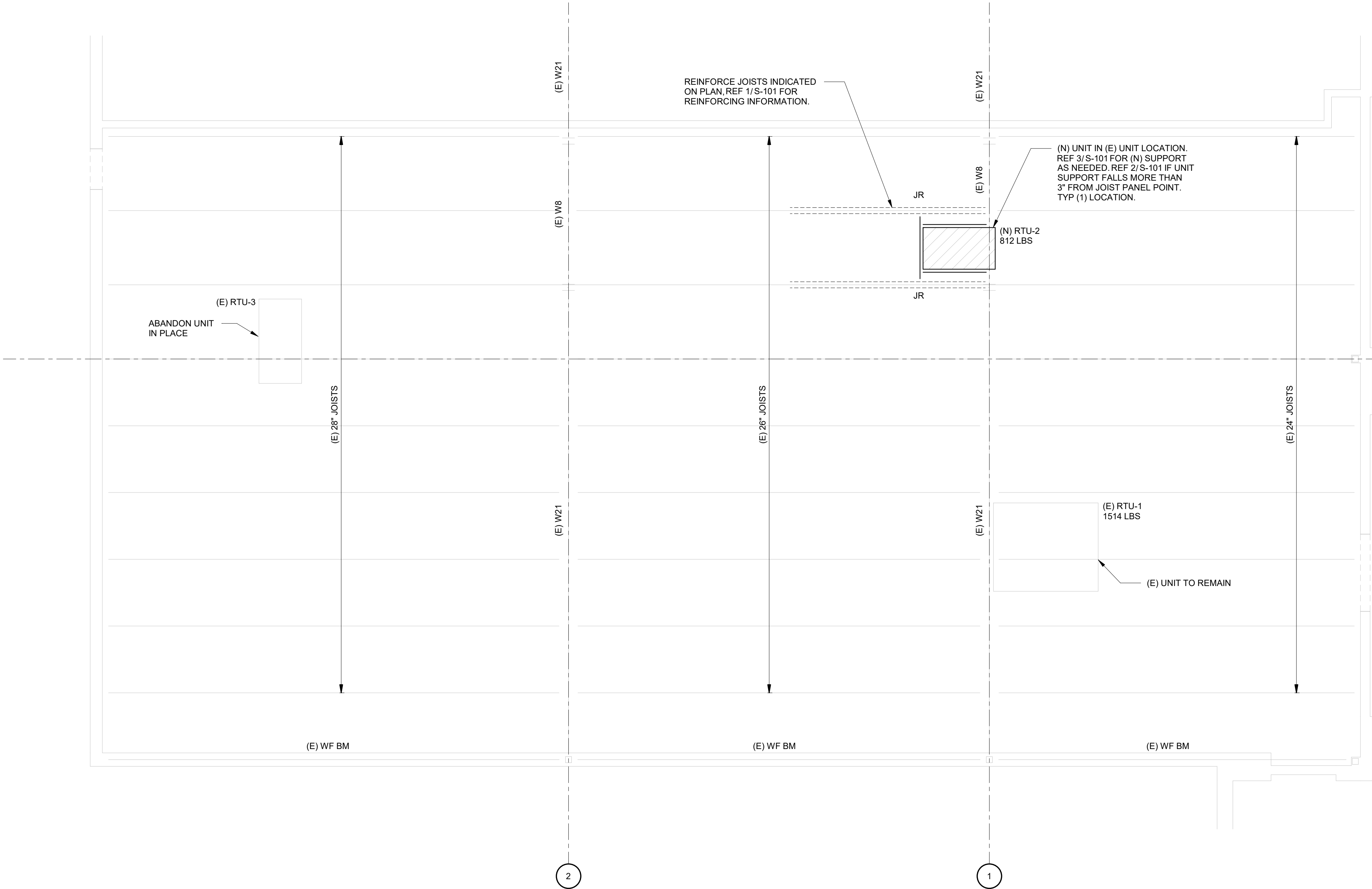
- REMOVE COMBUSTIBLE MATERIALS FROM AREAS OF WELDING AND SPARKS.
- PROVIDE FIRE PROOF BLANKETS AND SHIELDS TO CONTAIN SPARKS WHERE COMBUSTIBLE MATERIALS CANNOT BE REMOVED.
- PROVIDE A FIRE SAFETY OBSERVER WITH A FIRE EXTINGUISHER ON BOTH THE ROOF AND BELOW THE ROOF DURING WELDING NEAR THE ROOF STRUCTURE.

LEGEND

- (E) - DENOTES EXISTING
(N) - DENOTES NEW
FV - DENOTES FIELD VERIFY
JR - DENOTES JOIST REINFORCING, REF 1/S-101
XXX - JOIST
WXX - WIDE FLANGE
- ☐ - DENOTES EXISTING UNIT TO REMAIN
- ☒ - DENOTES NEW UNIT IN EXISTING LOCATION

FIELD VERIFICATION NOTE

VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF STRUCTURAL ITEMS. EXISTING PORTION OF PLANS ARE FROM LIMITED EXISTING DRAWINGS, WHICH MAY OR MAY NOT REFLECT ACTUAL AS-BUILT CONDITIONS OR DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT ARCHITECT AND ENGINEER TO DETERMINE WHAT SHOULD BE DONE TO MATCH EXISTING CONDITIONS AS REQUIRED. BEGINNING OF STEEL FABRICATION MEANS ACCEPTANCE OF EXISTING CONDITIONS. REF GENERAL NOTES.

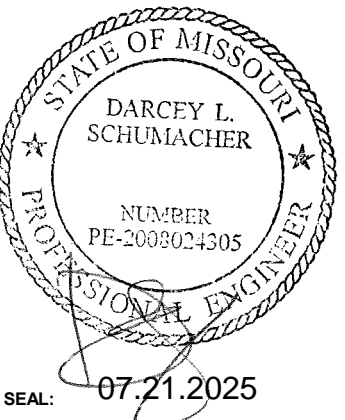


1 EXISTING FRAMING PLAN

3/16" = 1'-0"

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SUMMIT WOODS CROSSING

1744 NW CHIPMAN ROAD
LEE'S SUMMIT, MO 64081

GENERAL NOTES AND FRAMING PLAN

DRAWN BY	AML
CHECKED BY	RLH
JOB NUMBER	25303
SHEET NAME	S-100



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structural civil landscape survey
703 wvondotte street, suite 202
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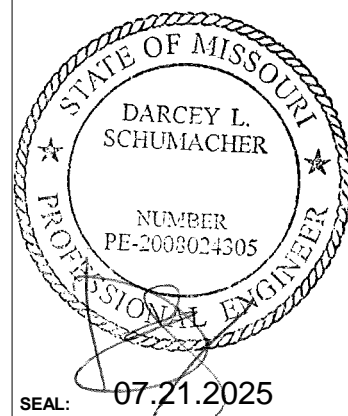
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REVISION	DATE
ISSUE FOR PERMIT, LANDLOAD, PRICING	06/18/25
STRUCTURAL REVISION	07/21/25

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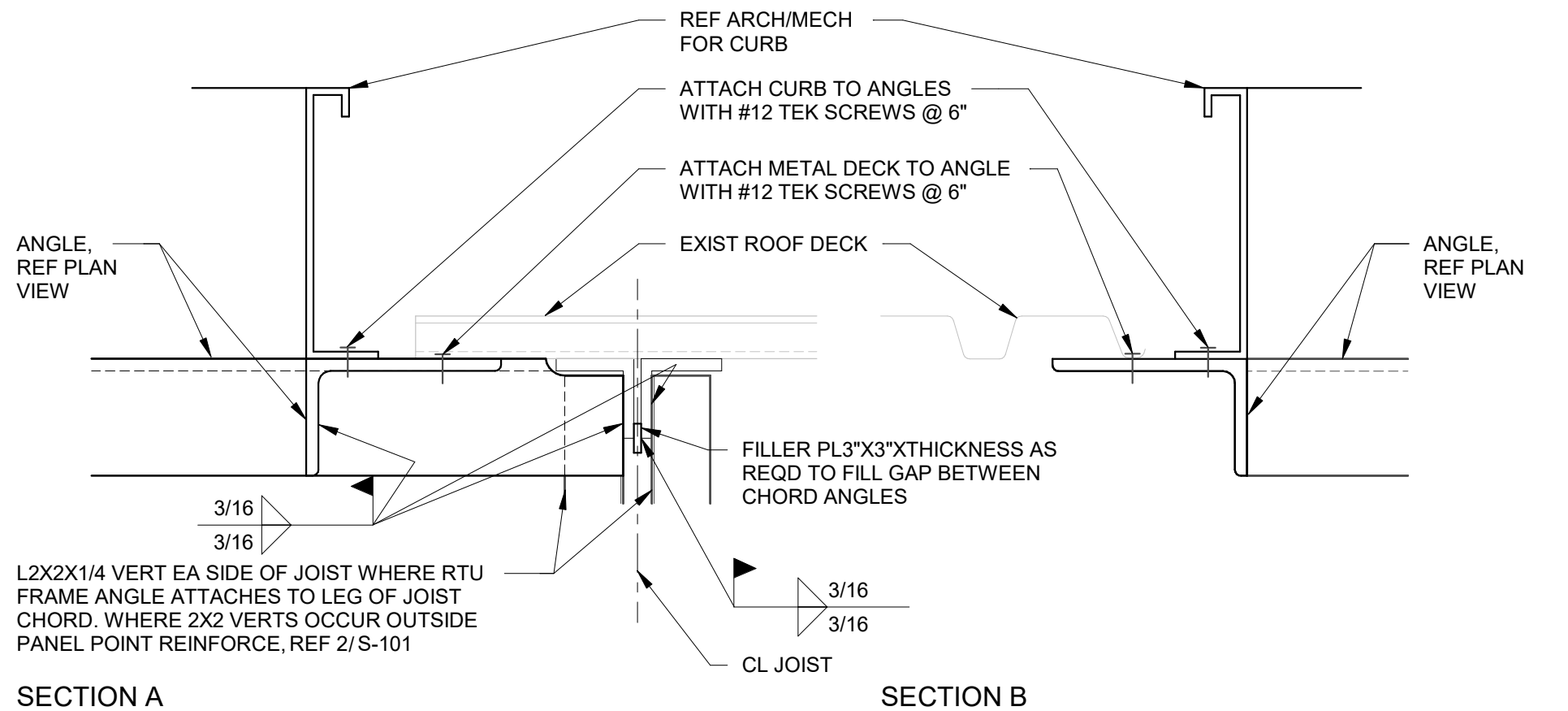
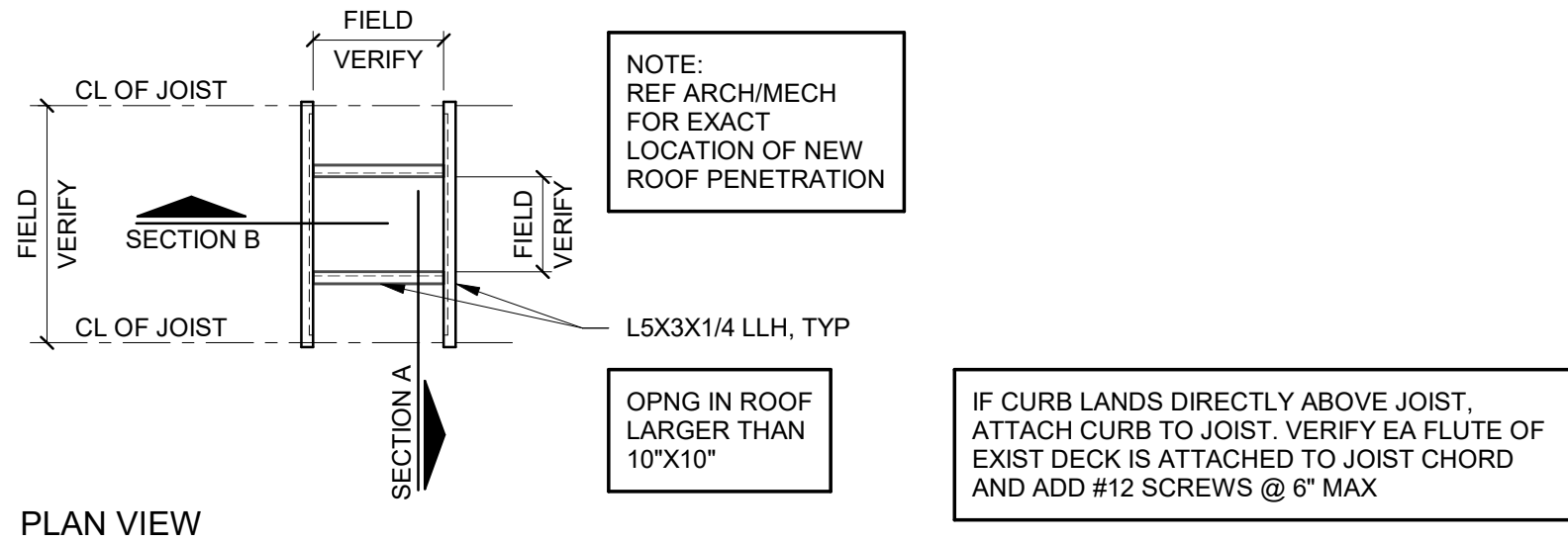
carhartt

SUMMIT WOODS
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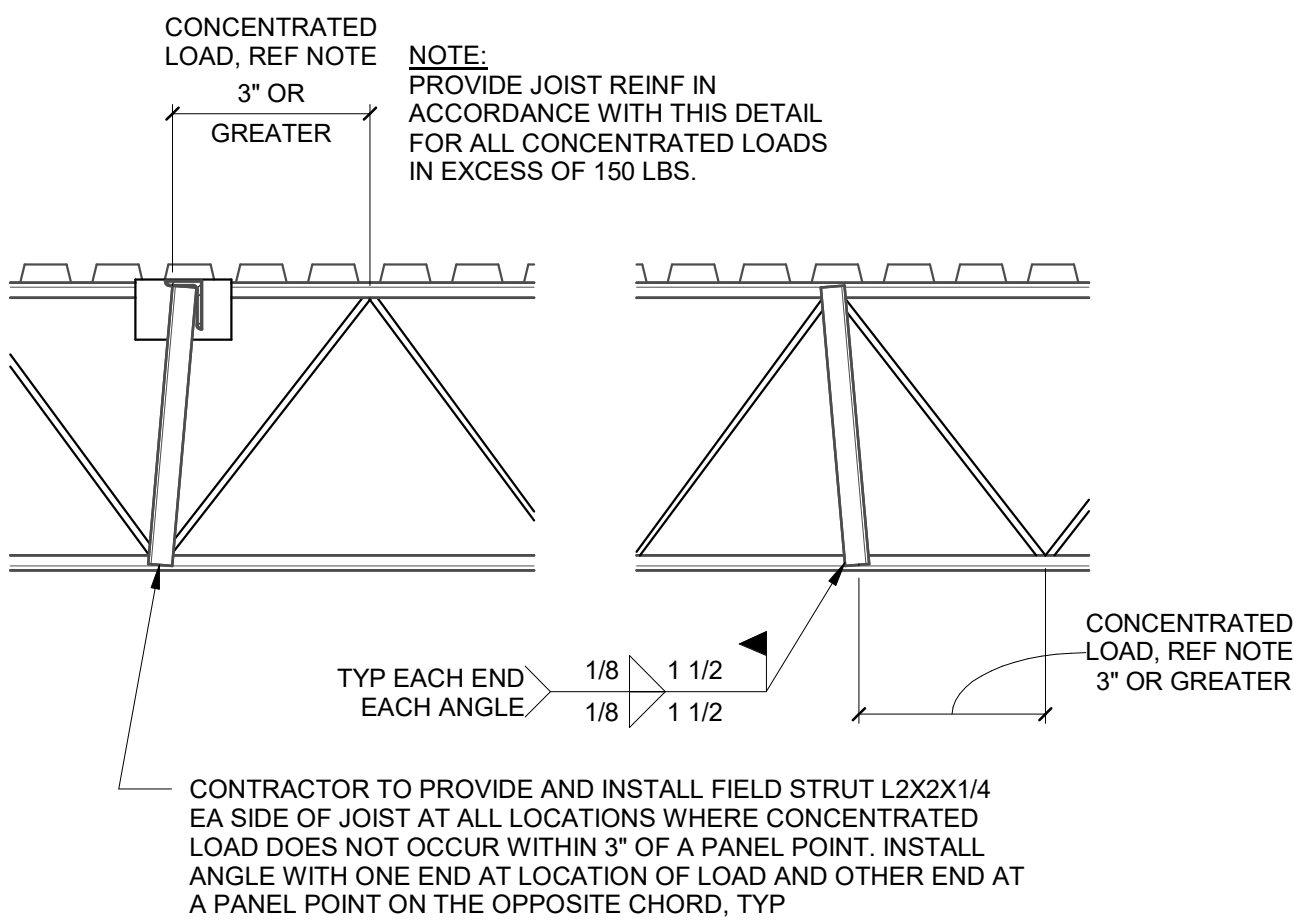
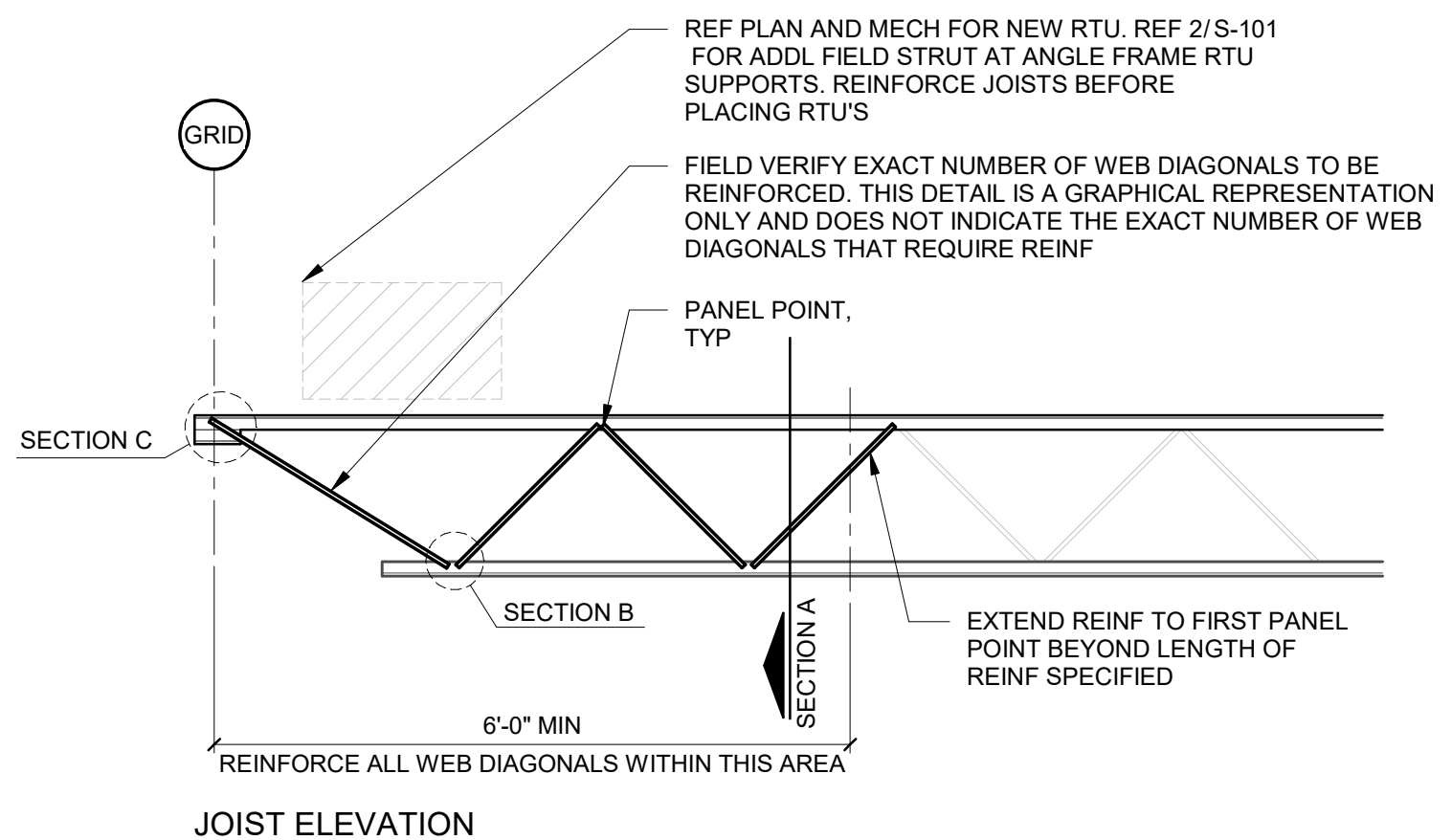
DETAILS

DRAWN BY	AML
CHECKED BY	RLH
JOB NUMBER	25303
SHEET NAME	S-101



3 RTU SUPPORT FRAMING

3/4" = 1'-0"



1 JOIST REINFORCING DETAIL

3/4" = 1'-0"

