1 GENERAL NOTES

A. 'DOCUMENTS', AS USED HEREIN, SHALL COMPRISE THE ENTIRE INTEGRATED SET OF ALL WRITTEN INSTRUMENTS RELATED TO THE PROJECT, INCLUSIVE OF, BUT NOT EXCLUSIVE TO, ALL CONTRACTS, SUBCONTRACTS, DRAWINGS, SKETCHES, MEMORANDA, ADDENDA, SPECIFICATIONS, MANUALS, POLICIES, RULES AND REGULATIONS, LANDLORD DESIGN CRITERIA, SUBMITTALS, SHOP DRAWINGS, PERMITS, APPROVALS, REGULATIONS AND CODES. 'PROJECT', AS USED HEREIN, SHALL REFER TO THE ENTIRE SCOPE OF PROVIDING A FINISHED FACILITY, READY AND USEABLE FOR IT'S INTENDED PURPOSE. GC SHALL BE RESPONSIBLE TO VISIT THE SITE PRIOR TO SUBMISSION OF BID. ANY DISCREPANCIES FROM PLANS SHALL BE CONVEYED TO THE ESSILOR LUXOTTICA PROJECT MANAGER PRIOR TO BID SUBMISSION. SUBMISSION OF BID SHALL CONSTITUTE ACKNOWLEDGEMENT AND ACCEPTANCE OF EXISTING CONDITIONS.

B. ALL MATERIALS AND/OR LABOR FOR THE PROJECT WHICH IS SHOWN ON THE DRAWINGS AND SPECIFICATIONS OR IS REASONABLY INFERABLE THEREIN AS BEING NECESSARY TO PRODUCE A FINISHED PROJECT, SHALL BE PROVIDED BY GENERAL CONTRACTOR, WHETHER OR NOT THE WORK IS EXPRESSLY COVERED IN THE DOCUMENTS. THIS APPLIES TO ALL WORK, WITH THE EXCEPTION OF THOSE ITEMS INDICATED N.I.C. ("NOT IN CONTRACT") OR BY OTHERS. THE DESIGN INTENT OF THE DRAWINGS SHALL ALWAYS BE THE GOAL.

C. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION BETWEEN SUBCONTRACTORS, SUPPLIERS, VENDORS OR ANY OTHER PARTIES SUPPLYING GOODS OR SERVICES TO THE PROJECT. NO EXTRA COMPENSATION WILL BE GIVEN TO ANY PARTY WHO HAS BID FROM AN INCOMPLETE SET OF DOCUMENTS OR WITH INSUFFICIENT FAMILIARITY WITH THE PROJECT OR THE SPECIFIC REQUIREMENTS THEREOF. IN THE EVENT OF INCONSISTENCIES OR DISCREPANCIES BETWEEN THE DOCUMENTS, CODES, CRITERIA OR REQUIREMENTS, THE MOST STRINGENT SHALL APPLY. THE GENERAL CONTRACTOR SHALL NOTIFY THE ESSILOR LUXOTTICA PROJECT MANAGER IMMEDIATELY OF SUCH DISCREPANCIES OR INCONSISTENCIES.

D. IT IS THE RESPONSIBILITY OF THE G.C. TO VERIFY BOTH EXISTING SITE CONDITIONS AND DIMENSIONS WITHIN 24 HOURS OF STARTING ANY PROJECT. THE G.C. SHALL NOTIFY THE ESSILOR LUXOTTICA PROJECT MANAGER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO INITIATING CONSTRUCTION.

E. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A CURRENT SET OF CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL INDICATE ON THESE PLANS ALL APPROVED CHANGES TO THE WORK. THIS SET OF DRAWINGS SHALL BE UPLOADED VIA PROJECT READY IN PDF FORMAT TO THE ESSILOR LUXOTTICA PROJECT MANAGER UPON COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE MARKED UP TO REPRESENT A COMPLETE AND ACCURATE SET OF "AS-BUILT" DRAWINGS. ANY AND ALL CHANGES SHALL BE NOTED ON SAID PLANS. PROVIDE MARKED UP PLANS TO ESSILOR LUXOTTICA PROJECT MANAGER AT PUNCH WHICH WILL THEN BE STORED ON SITE IN THE DRAWING TUBE LOCATED AT THE PHONE BOARD.

F. ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED IN THE CONTRACT DOCUMENTS BY THE GC SHALL BE BROUGHT TO THE ATTENTION OF THE ESSILOR LUXOTTICA PROJECT MANAGER FOR DIRECTION BEFORE PROCEEDING WITH THE RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS WILL BE THE RESPONSIBILITY OF THE GC.

G. NO MATERIAL SUBSTITUTIONS WILL BE ALLOWED UNLESS SUBMITTED IN WRITING AND APPROVED IN WRITING BY THE ESSILOR LUXOTTICA PROJECT MANAGER.

H. THE GENERAL CONTRACTOR SHALL, ON OR BEFORE THE SOONER OF: WITHIN 10 WORKING DAYS OF CONTRACT AWARD OR THE START OF THE PROJECT, PROVIDE TO ESSILOR LUXOTTICA'S PROJECT MANAGER AND KEEP CURRENT, A LIST OF ALL SUBCONTRACTORS TO BE USED ON THE PROJECT. THE GENERAL CONTRACTOR SHALL ALSO PROVIDE A COPY OF THIS LIST TO THE ESSILOR LUXOTTICA PROJECT MANAGER AT CONSTRUCTION COMPLETION, AND A COPY IS TO BE INCLUDED IN THE CLOSEOUT PACKAGE FROM THE GENERAL CONTRACTOR.

I. THE GENERAL CONTRACTOR SHALL INSPECT, VERIFY AND INVENTORY ALL SHIPMENTS OF ESSILOR LUXOTTICA SUPPLIED MATERIALS, INCLUDING THOSE TO AND FROM ANY OFF SITE WAREHOUSE FACILITIES. THIS INCLUDES VERIFYING PACKING LISTS AGAINST ORDER FORMS AND BILLS OF LADING, AND NOTING AND REPORTING ANY DAMAGES OR SHORTAGES TO THE ESSILOR LUXOTTICA PROJECT MANAGER. IF NOT DONE WITHIN 24 HOURS OF DELIVERY, THE GENERAL CONTRACTOR SHALL BEAR ANY AND ALL ASSOCIATED COSTS, INCLUDING EXPEDITED FREIGHT CHARGES, TO MEET THE CONSTRUCTION SCHEDULE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FILING DAMAGE REPORTS AND MAINTAINING PACKING MATERIALS FOR RETURN SHIPMENT OF DAMAGED ITEMS.

J. THE GENERAL CONTRACTOR SHALL KEEP ALL HANDBOOKS, MANUALS, WARRANTY DOCUMENTS AND MISCELLANEOUS PAPERWORK, INCLUDING ALL PACKING SLIPS AND BILLS OF LADING IN A MARKED BINDER. THIS BINDER IS TO BE TURNED OVER TO THE STORE GENERAL MANAGER AT PROJECT COMPLETION. COPIES OF THOSE ITEMS AND DOCUMENTS REQUIRED FOR INCLUSION IN THE CLOSEOUT PACKAGE SHALL BE MADE BY THE GENERAL CONTRACTOR AS NEEDED FOR THIS SUBMISSION.

K. THE GENERAL CONTRACTOR SHALL DELIVER TO THE ESSILOR LUXOTTICA PROJECT MANAGER A COPY OF THE CERTIFICATE OF OCCUPANCY (C OF O), LIEN WAIVERS, WARRANTIES, GUARANTEES AND EQUIPMENT OPERATION MANUALS. THE ORIGINAL CERTIFICATE OF OCCUPANCY IS TO BE LEFT WITH THE STORE GENERAL MANAGER.

L. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN UP AND DISPOSAL OF ALL TRASH AND DEBRIS GENERATED BY ALL TRADES. GC TO REMOVE/DISPOSE OF ALL BOXES/CRATES/TRASH OF TENANT SUPPLIED AND INSTALLED ITEMS, INCL. DISPLAY FIXTURES & HARDWARE. DAILY CLEAN REQUIRED.

M. THESE CONSTRUCTION DOCUMENTS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, UNLESS OTHERWISE NOTED.

N. THESE DRAWINGS ARE NOT TO BE ALTERED IN ANY WAY WITHOUT THE WRITTEN AUTHORIZATION FROM ESSILOR LUXOTTICA'S ARCHITECT.

O. THE GENERAL CONTRACTOR SHALL MAINTAIN EGRESS AT ALL TIMES DURING STORE OPERATION / CONSTRUCTION.

P. THE GENERAL CONTRACTOR SHALL COORDINATE CONSTRUCTION TIMES AND NOISE REQUIREMENTS WITH LANDLORD AT TIME OF BID AND PRIOR TO CONSTRUCTION START, NO EXTRA COSTS WILL BE ALLOWED TO ACCOMMODATE ANY RESTRICTIONS OR LIMITATIONS.

Q. UPON COMPLETION OF CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CLEAN ALL SURFACES / FIXTURES PER MANUFACTURER'S INSTRUCTIONS AND TO EMPLOY THE SERVICES OF A PROFESSIONAL CLEANING COMPANY TO ASSURE DELIVERY TO THE TENANT OF AN ABSOLUTELY CLEAN STORE. (3) CLEANINGS REQUIRED. (1) PRIOR TO PUNCH, (1) AT TURNOVER, & (1) AT STORE OPENING. THE FINAL CLEANING IS TO BE PERFORMED NO MORE THAN ONE DAY PRIOR TO THE TURN OVER. IF AN UNTIDY STORE IS TURNED OVER, ESSILOR LUXOTTICA RESERVES THE RIGHT, WITHOUT NOTICE TO THE GENERAL CONTRACTOR, TO EMPLOY PROFESSIONAL CLEANING SERVICES AND DEDUCT THE COST PLUS 15% FROM THE BALANCE OF THE GENERAL CONTRACTOR.

R. THE GENERAL CONTRACTOR SHALL PROVIDE PROTECTIVE COVERING FOR ALL EQUIPMENT, FINISHES, MERCHANDISE, CARPET, ETC., INCLUDING THE WORK OF OTHERS, THROUGHOUT THE DURATION OF THE PROJECT. THE GENERAL CONTRACTOR SHALL, WITHOUT EXCEPTION, PROVIDE AND INSTALL ANY AND ALL DUST PROTECTION REQUIRED DURING CONSTRUCTION. PROVIDE BLANKETS, CARDBOARD, ETC AS NECESSARY TO PROTECT MILLWORK SURFACES.

S. THE GENERAL CONTRACTOR SHALL COORDINATE ALL ACTIVITIES AND ANY INTERRUPTION OF SERVICES WITH THE LANDLORD PRIOR TO THE START OF CONSTRUCTION. ANY SHUT DOWNS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR

T. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES, THE LANDLORD'S TENANT DESIGN CRITERIA, THE LANDLORD'S CONSTRUCTION RULES AND REGULATIONS, ESSILOR LUXOTTICA STANDARD SPECIFICATIONS, ESSILOR LUXOTTICA'S STANDARD CONSTRUCTION CRITERIA AND ACCEPTED BEST CONSTRUCTION PRACTICES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO FILE ANY NEEDED "NOTICE OF COMMENCEMENT" OR OTHER FILINGS RELATED TO THE PROJECT IN THE APPROPRIATE OFFICES AND SHALL BE RESPONSIBLE TO POST SUCH NOTICES AT THE JOB SITE.

U. ALL WOOD CONSTRUCTION, INCLUDING BLOCKING, SHALL BE FIRE RESISTANT TREATED (FRT). ANY NEW FRAMING AT THE STOREFRONT AND / OR ABOVE THE CEILING SHALL BE NON-COMBUSTIBLE.

V. THE GENERAL CONTRACTOR SHALL PROVIDE ALL FIRE EXTINGUISHERS (AND WHERE APPLICABLE, FIRE EXTINGUISHER CABINETS), CONCEALED BLOCKING AND SIGNAGE FOR FIRE EXTINGUISHERS AS REQUIRED. QUANTITIES, SIZES AND LOCATIONS SHOWN IN THE DRAWINGS ARE ONLY SUGGESTED. QUANTITIES, SIZES AND LOCATIONS. THE MOST STRINGENT REQUIREMENT OF ANY BODY HAVING JURISDICTION SHALL PREVAIL.

W. GENERAL CONTRACTOR TO PROVIDE ALL FLOOR PREPARATION AS NEEDED TO ASSURE COMPLIANCE WITH FINISHED FLOORING MANUFACTURER SPECIFICATIONS.

X. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL CEILING WORK WITH THE MEP DRAWINGS.

Y. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL LIGHTING WITH THE ELECTRICAL DRAWINGS / REFLECTED CEILING PLAN.

Z. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING AND INSTALLING ALL LIGHT FIXTURES SUPPORTS, INCLUDING ANY AND ALL SEISMIC REQUIREMENTS.

AA. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING REQUIRED FIRE RATINGS AND FIRE PROOFING IN ALL INSTANCES.

AB. ALL PENETRATIONS OF DEMISING WALLS, ROOF AND FLOOR SHALL BE FIRE SAFE / PROOF PER CODES / LANDLORD REQUIREMENTS. THE MOST STRINGENT REQUIREMENT SHALL PREVAIL.

AC. THE GENERAL CONTRACTOR SHALL RECEIVE, UNLOAD, AND PROVIDE SAFE STORAGE OF ALL ESSILOR LUXOTTICA / ESSILOR LUXOTTICA SUPPLIED AND / OR INSTALLED MATERIAL. TRASH REMOVAL OF ALL BOXES / CRATES CONTAINING ESSILOR LUXOTTICA / ESSILOR LUXOTTICA SUPPLIED AND / OR INSTALLED MATERIAL, INCLUDING BUT NOT LIMITED TO FLOORING, MILLWORK, LIGHTING, HARDWARE, ACCESSORIES, EQUIPMENT, ETC. SHALL BE BY THE GENERAL CONTRACTOR.

AD. NOTICE OF INCIDENT: THE GENERAL CONTRACTOR SHALL, VIA ELECTRONIC MEDIUM AND ESSILOR LUXOTTICA STANDARD NOTIFICATION AND REPORTING FORMS, IMMEDIATELY NOTIFY THE ESSILOR LUXOTTICA PROJECT MANAGER OF ANY INCIDENT INVOLVING THE PROJECT WHICH RESULTS IN CONTACT WITH ANY FEDERAL, STATE OR LOCAL GOVERNMENT AGENCY OR AS CALLED OUT IN ESSILOR LUXOTTICA'S OR THE LANDLORDS RULES, REGULATIONS OR POLICIES.

AE. WEEKLY PROGRESS PHOTOS, DAILY REPORTS, SAFETY INSPECTIONS, SCHEDULE UPDATES, CHANGE ORDER LOGS, RFI/SUBMITTAL LOGS, AND TOOL BOX TOPICS SHALL BE SUBMITTED TO THE ESSILOR LUXOTTICA PROJECT MANAGER VIA PROJECT READY AS REQUIRED IN THE DOCUMENTS OR DIRECTED BY THE ESSILOR LUXOTTICA PROJECT MANAGER.

AF. FOR THOSE PROJECTS THAT ARE "OPEN REMODELS": STORES WILL REMAIN OPEN DURING REGULAR BUSINESS HOURS WHILE CONSTRUCTION IS IN PROGRESS. ALL DISTURBANCES TO SURROUNDING BUSINESSES AND AREAS MUST BE KEPT TO A MINIMUM. WORK DURING AN OPEN REMODEL IS TYPICALLY PERFORMED "AFTER NORMAL OPERATING HOURS." GC MUST COORDINATE WITH ESSILOR LUXOTTICA PROJECT MANAGER AND OR STORE OPERATIONS MANAGER PRIOR TO CONSTRUCTION START. THERE SHALL BE NO UP-CHARGE SUBMITTED, ALLOWED, OR CONSIDERED FOR ANY SUCH AFTER HOURS WORK.

AG. E.C. SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A FULLY COMPLETE AND OPERABLE SYSTEM.

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1A SHOP DRAWING APPROVAL

FIRE SPRINKLER AND FIRE ALARM SYSTEMS SHOP DRAWINGS MUST BE SUBMITTED FOR APPROVAL, WHEN APPLICABLE TO THE PROJECT. THE ARCHITECT AND ESSILOR LUXOTTICA PROJECT MANAGER MUST APPROVE THE SHOP DRAWINGS BEFORE ANY INSTALLATION CAN OCCUR. THE DESIGN INTENT OF THE CEILING IS FOR ALL CEILING ELEMENTS TO BE IN ALIGNMENT WITH EACH OTHER, INCLUDING FIRE ALARM DEVICES AND SPRINKLER HEADS. IF FIRE ALARM AND SPRINKLER HEADS ARE INSTALLED WITHOUT THE PROJECT MANAGER OR ARCHITECTS APPROVAL, THE GENERAL CONTRACTOR IS SUBJECT TO RELOCATING THESE ITEMS, TO ACHIEVE THE DESIRED ALIGNMENT, AT THE GENERAL CONTRACTORS COST.

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2 GENERAL CONTRACTOR NOTES

SAFETY:
SAFETY OF ALL EMPLOYEES, ASSOCIATES AND CUSTOMERS SHALL BE THE NUMBER ONE PRIORITY FOR ALL CONTRACTORS ON ANY ESSILOR LUXOTTICA PROJECT. OSHA REQUIREMENTS SHALL BE INCORPORATED INTO THE SCOPE OF WORK EVEN THOUGH THEY MAY NOT BE LISTED SEPARATELY. CONTRACTOR SHALL MAINTAIN A COPY OF THEIR SITE SPECIFIC SAFETY PLAN ON SITE AT ALL TIMES

1. BUILDING PERMIT AND CERTIFICATE OF OCCUPANCY:
   A. THE GC SHALL CONTACT THE ESSILOR LUXOTTICA PROJECT MANAGER OR THE PERMIT EXPEDITOR TO SECURE THE PERMIT. PERMIT SHALL BE MOUNTED IN A VISIBLE, LOCATION AT THE SITE. PERMITS SHALL BE PAID FOR BY THE GC AND SUBMITTED TO TENANT AS A NET COST.
   B. THE GC SHALL ARRANGE FOR ALL REQUIRED INSPECTIONS.
   C. THE GC SHALL DETERMINE IF THE INSPECTORS WILL BE CHECKING LAB FOR UL OR ETL LABELS AND NOTIFY THE ESSILOR LUXOTTICA PROJECT MANAGER NO LATER THAN 4 WEEKS BEFORE "PUNCH".
   D. IF REQUIRED, A "TEMPORARY C OF O" OR BUILDING DEPARTMENT APPROVAL SHALL BE RECEIVED TO SET DOWN EQUIPMENT.
2. DIMENSIONS:
   THE WORD 'HOLD' REFERS TO A CRITICAL DIMENSION AND MUST BE ADHERED TO. IF THESE DIMENSIONS CAN NOT BE MET, SUBMIT IN WRITING & CALL ESSILOR LUXOTTICA PROJECT MANAGER FOR DIRECTION.
3. ON-SITE COMMUNICATION:
   A. THE GC SHALL CONTACT THE ESSILOR LUXOTTICA PROJECT MANAGER TO RESOLVE ALL FIELD ISSUES.
   B. GC TO HAVE CELL PHONE WITH VOICEMAIL CAPABILITIES.
   C. GC TO HAVE LAPTOP ON SITE WITH WIFI CAPABILITIES.
   D. GC TO HAVE PRINTER ON SITE.
4. CHANGE ORDERS:
   NO ADDITIONAL COSTS OR DESIGN CHANGES WILL BE ACCEPTED WITHOUT THE WRITTEN APPROVAL OF THE ESSILOR LUXOTTICA PROJECT MANAGER AND THE EXECUTION OF THE ESSILOR LUXOTTICA CHANGE ORDER PROCESS, PRIOR TO THE COMMENCEMENT OF SUCH WORK. CHANGE ORDER WORK COMPLETED WITHOUT SIGNED APPROVAL TO DO SO, IS DONE SO AT THE GC'S RISK.
5. SUBCONTRACTOR COORDINATION:
   GC TO COORDINATE ALL LUXOTTICA VENDORS ON SITE. THE GC MUST BE PRESENT AT ALL TIMES FOR THE DURATION OF CONSTRUCTION. THE GC SHALL; GIVE SUBCONTRACTORS APPROPRIATE NOTICE BEFORE REQUIRING THEM ON SITE, COORDINATE INSTALLATION DATES, AND COMMUNICATE SITE SPECIFIC DETAILS. THE GC SHALL COORDINATE THE INSTALLATION SCHEDULE AND DIVISION OF WORK WITH THE ESSILOR LUXOTTICA PROJECT MANAGER SUBCONTRACTORS SHOULD CONTACT THE GC FOR SCHEDULE CLARIFICATIONS.
6. MILLWORK / CASEWORK: GC SHALL COORDINATE CRITICAL DIMENSIONS PRIOR TO WALL CONSTRUCTION AND HAVE THE AREA READY PRIOR TO FIXTURE DELIVERY. READY SHALL BE DEFINED AS FLOORING DOWN THRU-OUT THE RETAIL AND OPTOMETRIC DOCTOR (OD) RECEPTION. LIGHTING SOFFITS BUILT OUT, DRYWALLED, FINISHED, PAINTED AND LIGHTING FIXTURES INSTALLED, ALL WALLS IN THE RETAIL AND OD RECEPTION MUST BE FINISHED AND PAINTED. ALL ELECTRICAL AND MECHANICAL ROUGH-OUTS MUST BE COMPLETED, STORE MUST BE SECURED FROM THE OUTSIDE. ONCE THE PRE-CONSTRUCTION MILLWORK DROP / INSTALL DATE HAS BEEN ESTABLISHED, ANY CHANGES TO THE ESTABLISHED DATE MUST BE COMMUNICATED AT LEAST 7 CALENDAR DAYS PRIOR.
7. DATA+POS / PHONES:
   A. NEW T.I. & RELO STORES: PHONE BOARD TO BE INSTALLED WITHIN 7 CALENDAR DAYS OF THE CONSTRUCTION START DATE. ACCESS TO PHONE BOARD SHALL BE AFFORDED TO ALL TENANT VENDORS. TELEPHONE, ELECTRIC AND DATA CABLING INSTALLED ONE WEEK BEFORE "PUNCH" FOR HARDWARE INSTALLATION AND TESTING. CONTACT ESSILOR LUXOTTICA PROJECT MANAGER IF NEEDED.
   B. REMODEL STORES: GC TO COORDINATE ALL TEMPORARY AND PERMANENT DATA AND PHONE CABLING DURING THE OPEN REMODEL. KEEPING STORE POS AND PHONE SYSTEMS ON LINE AND ACTIVATED AT ALL TIMES. COORDINATE WORK WITH TENANT LOW VOLTAGE VENDOR.
8. ELECTRICAL AND LIGHTING DELIVERIES
   GC SHALL BE RESPONSIBLE FOR THE COORDINATION OF DELIVERIES, FOR THE OFF-LOADING OF SAME, AND TO VERIFY / REPORT ANY DAMAGE AND FOR THE SAFE STORAGE OF ALL MATERIALS RECEIVED. THE GC SHALL VERIFY THE VOLTAGE AND COMPATIBILITY OF ALL EQUIPMENT, FIXTURES AND MILLWORK PRIOR TO CONNECTION.
9. TURNOVER PROCEDURE:
   A. THE GC SHALL CALL THE THE ESSILOR LUXOTTICA PROJECT MANAGER TO CONFIRM THE TURNOVER DATE NO LATER THAN 10 WORKING DAYS BEFORE TURNOVER.
   B. ALL CONSTRUCTION ITEMS, INCLUDING ITEMS ON THE INSTALLATION SCHEDULE ARE TO BE COMPLETED BEFORE TURNOVER DAY.
   C. THE GC AND ESSILOR LUXOTTICA PROJECT MANAGER TO CONDUCT THE PUNCH WALKTHROUGH, NOTING ALL DEFICIENCIES AND TIMING FOR RESOLUTION.
   D. A "SUBSTANTIAL COMPLETION" DOCUMENT WILL BE DISTRIBUTED TO THE GC. THE GC SHALL REMAIN ON SITE UNTIL ALL "PUNCH LIST" ITEMS ARE COMPLETE AND THE ESSILOR LUXOTTICA PROJECT MANAGER HAS APPROVED ITEMS CONFIRMING COMPLETION OF THE "PUNCH LIST" BY GC.
   E. A COPY OF THE "CONFIRMED COMPLETION OF PUNCH LIST" WITH PHOTOS MUST BE GIVEN TO THE ESSILOR LUXOTTICA PROJECT MANAGER BY THE GC.
10. SETDOWN FOR NEW CORPORATE STORES:
    ESSILOR LUXOTTICA'S NEW STORE TEAM WILL DELIVER ALL MERCHANDISE ITEMS TO THE STORE ON THE EVENING OF "TURNOVER" DAY. THE GC SHALL BE ON SITE ON THE DAY AFTER "TURNOVER", WITH ONE (1) PLUMBER AND ONE (1) ELECTRICIAN TO ASSIST THE SETDOWN TEAM TO RESOLVE ANY ISSUES. THE GC SHALL SUPPLY DUMPSTER AND ASSIST WITH REMOVAL OF SETDOWN DEBRIS.

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3 AIR BALANCE REPORTS

G.C. RESPONSIBLE TO OBTAIN CERTIFIED AIR BALANCING REPORT FROM MELINK VENDOR INDEPENDENT FROM THE HVAC CONTRACTOR.

G.C. TO COORDINATE WITH MELINK REGARDING SITE READINESS AND DATES OF INSPECTIONS AROUND TAB REPORTS, PRE-GRID WALK THROUGH AND COMMISSIONING. IF SITE IS NOT READY AND MELINK NEEDS TO RETURN TO PERFORM THEIR WORK, THE G.C. WILL BE RESPONSIBLE FOR ANY COSTS INCURRED FOR A REVISIT AS REQUIRED

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4 UTILITY ACCOUNT TRANSFER/SETUP

GENERAL CONTRACTOR'S SUPERINTENDENT SHALL CONTACT THE LL'S PROPERTY MANAGER UPON ARRIVAL AT THE METER INSTALLATIONS FOR GAS/ELECTRIC/WATER:

FOR NEW AND RELOCATED STORES ONLY:

1. GC SHALL ESTABLISH ALL UTILITY ACCOUNTS, I.E. ELECTRICITY, NATURAL GAS, WATER, AND WASTE IN THEIR NAME, AS SOON AS THE PROJECT COMMENCES.
2. THE GC WILL BE REIMBURSED BY US FOR THE UTILITY CHARGES DURING THE COURSE OF THE PROJECT.
3. ONCE UTILITIES HAVE BEEN ESTABLISHED BT THE GC, THE GC IS TO CONTACT SCHNEIDER ELECTRIC AT: LUXOTTICA@SE.COM, CC'ING JASON WATKINS (JASON.WATKINS@SE.COM) AND LEO GARCIA (LEONEL.GARCIA@SE.COM) SO THAT SCHNEIDER MAY TRANSFER AND ESTABLISH THE UTILITY OVER TO ESSILORLUXOTTICA. WHEN CONTACTING SCHNEIDER, THE GC SHALL CONVEY THE FOLLOWING INFORMATION:
   A. STORE ADDRESS AND SPACE NUMBER
   B. EACH UTILITY COMPANY'S NAME AND PHONE NUMBERS FOR NATURAL GAS OR PROPANE, ELECTRIC, WATER, SEWER, AND WASTE)
   C. THE METER AND SOCKET NUMBERS (WHICHEVER IS APPLICABLE), FOR EACH UTILITY ACCOUNT TO BE ESTABLISHED IN LUXOTTICA'S NAME.
      i.) A PHOTOGRAPH OF EACH METER, IT'S METER NUMBER AND SERIAL NUMBER IS BEST, AND THEN E-MAILED TO SCHNEIDER: LUXOTTICA@SE.COM

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5 SCOPE OF WORK

- NEW INTERIOR PARTITION WALLS
- NEW STOREFRONT SIGNAGE & BLADE SIGNAGE
- NEW WALL, CEILING & FLOOR FINISHES
- NEW GYP. BD., ACT CEILINGS AND LIGHTING
- NEW INTERIOR SIGNAGE & GRAPHICS
- ELECTRICAL WORK FOR NEW LIGHTING, SIGNAGE, & DISPLAY FIXTURES
- NEW SECURITY SHUTTERS AT STOREFRONT
- NEW MOP SINK & DRINKING FOUNTAIN
- NEW RESTROOMS, INCLUDING FIXTURES & ACCESSORIES
- NEW ELECTRICAL PANELS, DISTRIBUTION & TECH RACK
- NEW HVAC DISTRIBUTION
- SPRINKLER & FIRE ALARM

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6 JOB SITE ADDRESS

NAME	BRUNSWICK SQUARE MALL
STREET ADDRESS	755 NJ-18, SUITE N129
CITY, STATE, ZIP	EAST BRUNSWICK, NJ 08816
PHONE	(732) 698-0007

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7 JURISDICTION

DEPARTMENT	EAST BRUNSWICK DIVISION OF CONSTRUCTION INSPECTION
STREET ADDRESS	4 HARTS LANE
CITY, STATE, ZIP	EAST BRUNSWICK, NJ 08816
PHONE	732-390-6875

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8 LANDLORD'S ADDRESS

LANDLORD	PARAMOUNT REALTY SERVICES, INC.
SR. TENANT COORD.	ERIC KELLY
STREET ADDRESS	1195 NJ-70 #2000
CITY, STATE, ZIP	LAKEWOOD, NJ 08701
PHONE	610-733-7325
EMAIL	EKELLY@PARAMOUNTREALTY.COM

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9 DEFERRED SUBMITTALS

1. SPRINKLER
2. FIRE ALARM
3. SIGNAGE BY LUXOTTICA VENDOR

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10 CODE INFORMATION

CONSTRUCTION TYPE:	2B - UNPROTECTED/ FULLY SPRINKLED
EXISTING OCCUPANCY:	(M) MERCANTILE
PROPOSED OCCUPANCY:	M (MERCANTILE) & B (BUSINESS) [3,770 SQ. FT.]
BUILDING:	STATE OF NJ UNIFORM CONSTRUCTION CODE N.J.A.C. 5:23 (BASED ON IBC 2021)
MECHANICAL:	STATE OF NJ UNIFORM CONSTRUCTION CODE N.J.A.C. 5:23 (BASED ON IMC 2021)
FIRE:	STATE OF NJ UNIFORM CONSTRUCTION CODE
PLUMBING:	STATE OF NJ UNIFORM CONSTRUCTION CODE N.J.A.C. 5:23 (BASED ON NPC 2021)
ELECTRICAL	STATE OF NJ UNIFORM CONSTRUCTION CODE N.J.A.C. 5:23 (BASED ON NFPA 70/2020)
ENERGY:	STATE OF NJ UNIFORM CONSTRUCTION CODE N.J.A.C. 5:23 (BASED ON IECC 2021)
ACCESSIBILITY CODE:	ICCC A117.1- 2017 / NJAC 5:23-7 / CH. 11 IBC 2021

SPRINKLERED: YES
FIRE ALARM: YES NFPA 72
FIRE EXTINGUISHERS: NFPA 10

OCCUPANT LOAD: TABLE 1004.5 GROSS LEASE AREA 3,770 SQ. FT.

ROOM	AREA	OCCUPANCY
RETAIL SALES AREA (M)	1588 SQ. FT.	SQ. FT. / 60 PERSON = 26.47
OD RECEPTION (B)	375 SQ. FT.	SQ. FT / 150 PERSON = 2.5
MEN RESTROOM (B)	115 SQ. FT.	SQ. FT / 150 PERSON = 0.77
LAB (B)	160 SQ. FT.	SQ. FT / 150 PERSON = 1.07
PRETEST 1 (B)	102 SQ. FT.	SQ. FT / 150 PERSON = 0.68
PRETEST 2 (B)	102 SQ. FT.	SQ. FT / 150 PERSON = 0.68
CORRIDOR (B)	219 SQ. FT.	SQ. FT / 150 PERSON = 1.46
RESTROOM 1 (B)	76 SQ. FT.	SQ. FT / 150 PERSON = 0.51
RESTROOM 2 (B)	70 SQ. FT.	SQ. FT / 150 PERSON = 0.47
OFFICE (B)	67 SQ. FT.	SQ. FT / 150 PERSON = 0.45
BOH (B)	330 SQ. FT.	SQ. FT / 150 PERSON = 2.2
ELECTRICAL (S)	97 SQ. FT.	SQ. FT / 300 PERSON = 0.65
EXAM 2 + M EXAM (B)	130 SQ. FT.	SQ. FT / 150 PERSON = 0.87
EXAM 1 (B)	168 SQ. FT.	SQ. FT / 150 PERSON = 1.12
CONTACTS (B)	171 SQ. FT.	SQ. FT / 150 PERSON = 1.14
	3,770	TOTAL SQ. FT. TOTAL OCCUPANT LOAD: 42

EGRESS WIDTH PER OCCUPANT: 0.2 INCHES PER PERSON
1.) 1005.3.2 EGRESS COMPONENTS
0.2 INCHES PER OCCUPANT x 42 OCCUPANTS = 8.4 INCHES (REQUIRED)

2.) ACTUAL WIDTH PROVIDED:
THROUGH ENTRY (1) PAIR 3'-0" DOORS = 68" CLEAR
THROUGH REAR DOOR (1) 3'-0" DOOR = 34" CLEAR

TABLE 1006.3.3 MINIMUM NUMBER OF EXITS: 1-500 occupants = 2 exits

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:
(M) 250 feet sprinklered (B) 300 feet sprinklered

1018.3 AISLE SPACING 44" min. (unless under 50 occs than 36" min.) FROM SECTION 1020.3

1020.5 DEAD ENDS: no dead ends in corridors more than 20 ft.
EXCEPTIONS: where the building is equipped through-out with automatic sprinkler system the length of the dead-end corridors shall not exceed 50 ft.

1024.2 EXIT PASSAGEWAY WIDTH:
44" min. for occupant load of 50 or more.
36" min. for occupant load of less than 50

2021 NATIONAL PLUMBING CODE TABLE 7.21.1

PLUMBING FIXTURES: 42 OCCUPANTS TOTAL (27 MERCANTILE / 15 BUSINESS)
(21 OCCS MEN / 21 OCCS WOMEN)

WATER CLOSETS	REQUIRED: 2 (MERCANTILE): 1 PER 50 OCCUPANTS (BUSINESS): 1 PER 15 OCCUPANTS PROVIDED: 2
LAVATORIES	REQUIRED: 2 (MERCANTILE): 1 PER 50 OCCUPANTS (BUSINESS): 1 PER 15 OCCUPANTS PROVIDED: 2
DRINKING FOUNTAIN	REQUIRED: 1 (MERCANTILE): 1 PER 500 (BUSINESS): 1 PER 100 PROVIDED: 1
SERVICE SINK	REQUIRED: 1 (MERCANTILE): 1 REQUIRED (BUSINESS): 1 REQUIRED PROVIDED: 1

10-LC09-G001-REV02

11 LANDLORD NOTES

1. ---

11-LC09-G001-REV00

12 LONG LEAD ITEMS

ITEMS BELOW ARE KNOWN LONG LEAD ITEMS. GC TO COORDINATE ORDERING AT THE TIME OF AWARD TO AVOID DELAYS:

1. CUSTOM COLORED SPRINKLER CAPS TO MATCH CEILING COLOR
2. WALK OFF MAT
3. FRP
4. FIRE EXTINGUISHER (F.E.) CABINET (THE TRIMLESS ONE)
5. WALL COVERING
6. QMI SECURITY SHUTTERS
7. EZJAMB FRAMES AND DOORS
8. DRINKING FOUNTAIN
9. PLUMBING FIXTURES
10. ELECTRICAL GEAR, FLOOR BOXES AND PANELS
11. LUTRON COLOR MATCH ELECTRICAL DEVICES/COVER PLATES
12. IT RACK (ANIXTER)
13. METAL WALL BASE
14. ACOUSTICAL CEILING TILE
15. FIXTURE BULB FOR WAL

1 RESPONSIBILITY SCHEDULE

NOTE: THE GENERAL CONTRACTOR SHALL VERIFY ALL ITEMS ON THIS SCHEDULE FOR ACCURACY PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ESSILOR LUXOTTICA PROJECT MANAGER IMMEDIATELY.

T= TENANT
GC= GENERAL CONTRACTOR
LL= LANDLORD
MW= MILLWORKER
N/A= NOT APPLICABLE

DIVISION 01000 - GENERAL	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
BUILDING PERMIT	GC	GC					GC SHALL AMEND / PICK UP PERMIT & PAY ADD'TL FEES; FEES BILLABLE TO ESSILOR LUXOTTICA AT NET COST; VIA CHANGE ORDER #1
BUSINESS LICENSE	T						CONSTRUCTION PROJECT MANAGER TO APPLY FOR AT BEGINNING OF PROJECT, GC TO COORDINATE
TELEPHONE SERVICE	T						CONSTRUCTION PROJECT MANAGER TO APPLY FOR AT BEGINNING OF PROJECT, GC TO COORDINATE
UTILITY ACCOUNT TRANSFER/SETUP	GC						GC TO COMPLETE AT BEGINNING OF JOB, SEE G001 OR ELECTRICAL SHEETS FOR SET UP INFO
PROFESSIONAL CLEAN-UP, FINAL CLEANING	GC	GC					(3) CLEANINGS REQUIRED. (1) PRIOR TO PUNCH, (1) AT TURNOVER, (1) AT OPEN. SEE SHEET G001, GENERAL NOTE 'Q' FORE MORE INFO. GC TO STEAM IRON DRY EYE ROOM RETRACTABLE CURTAINS
DEMOLITION	GC	GC					FIELD VERIFY EXISTING CONDITIONS AND SEE PLANS FOR SCOPE
TEMPORARY FACILITIES / UTILITIES	GC	GC	GC				IF REQUIRED
OTHER PERMITS, FEES, INSURANCE	GC	GC					INCLUDING ALL LOCAL PEST CONTROL REQUIREMENTS, PERMITS, VERIFY REQUIREMENTS
TEMPORARY WINDOW GRAPHICS TO ACT AS BARRICADE (W/ ESSILOR LUXOTTICA BRAND SPECIFIC LOGO)	T		T				COORDINATE WITH LANDLORD.
TRASH REMOVAL AND DUMPSTER(S)	GC	GC					VERIFY TOWN AND LANDLORD REQUIREMENTS. GC. TO REMOVE/DISPOSE OF ALL BOXES/CRATES/TRASH OF TENANT SUPPLIED AND INSTALLED ITEMS, INCL. DISPLAY FIXTURES & HARDWARE. DAILY CLEAN REQUIRED.

DIVISION 03000 - CONCRETE	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
CONCRETE SLAB (NEW OR PATCH FILL)				●	GC.		G.C. TO FIELD VERIFY EXIST. COND. TO DETERMINE EXTENT OF SCOPE. SEE 19/A411 FOR POUR BACK DETAIL.
CUTTING OF EXISTING SLAB-TRENCHING OR CORE DRILLING	GC	GC	GC				COORD. W/ LANDLORD & AFFECTED TENANTS. VERIFY W OPERATIONS PRIOR TO ANY CORING OR TRENCHING.
STRUCTURAL CONCRETE & REINFORCING	GC	GC	GC		GC		SEE POUR BACK DETAIL 5/A410 AND MEP DRAWING SHEETS
SIDEWALK / ENTRY				●			GC TO FIELD VERIFY FOR ANY DEFECTS WHICH REQUIRE ATTENTION

DIVISION 04000 - MASONRY	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
STOREFRONT FACADE				●			
CLEANING OF MASONRY	GC	GC	GC				
CONCRETE MASONRY UNIT WALLS				●			GC TO FIELD VERIFY FOR ANY DEFECTS WHICH REQUIRE ATTENTION

DIVISION 05000 - MISC. METALS	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
BASE BUILDING STRUCTURAL STEEL				●			
STRUCTURAL STEEL AS REQUIRED FOR TENANT BUILD-OUT	GC	GC	GC				
EXPANSION JOINTS	GC	GC	GC				IF REQUIRED

DIVISION 06000 - WOOD & PLASTICS	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
BLOCKING (INCL. FOR FIXTURES, SHELVES, SIGNS)	GC	GC	GC				FIRE RETARDANT WOOD AND OR METAL PER AUTHORITY JURISDICTION / LL
ROUGH CARPENTRY, FIRE RETARDANT LUMBER & PLYWD	GC	GC	GC				
FLOOR PROTECTION	GC	GC	GC				DURABLE PROTECTION REQUIRED. PROVIDE WALK-OFF MAT AT BOTH SIDE OF ENTRY POINT(S) OF CONSTRUCTION AREA
FINISH CARPENTRY	GC	GC	GC				
FLOOR PREP	GC	GC	GC				SEE SHEET A103, GENERAL NOTE '7'

DIVISION 07000 - THERMAL & MOISTURE PROTECTION	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
SEALANTS, INSULATION & FIRE CAULKING	GC	GC	GC				SEE SPECIFICATIONS
THROUGH PENETRATIONS FIRE STOP	GC	GC	GC				
BATT INSULATION AND/OR SOUND ATTENUATION	GC	GC	GC				
WATERPROOF MEMBRANE (WM-101)							N/A
MOISTURE TEST	GC	GC	GC				SEE SHEET A103 FOR MORE INFORMATION

DIVISION 08000 DOORS & WINDOWS	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
DOORS, FRAMES, HARDWARE	*	GC	*				*SEE DOOR SCHEDULE SHEET G010
PANIC / SECURITY ALARM (TYPICALLY ON REAR EXIT DOOR)				●			EXISTING TO REMAIN
ALL DOOR LOCK CORES AND KEYS	T	GC	GC				
ACCESS DOORS AND FRAMES	GC	GC	GC				
SECURITY GRILLE / SHUTTERS	GC	GC	GC				USE VENDOR QMI - SEE G001 FOR CONTACT INFO. GC TO ENSURE IN WORKING ORDER, AND PERFORM ANY REPAIRS NECESSARY
EXTERIOR & INTERIOR METAL STOREFRONT CLADDING							N/A
DIRECT TO METAL (DTM) STOREFRONT PAINT							N/A
STOREFRONT ALUMINUM FRAME OR CHANNELS				●			
STOREFRONT GLAZING (G-01)				●			
STOREFRONT SWINGING DOORS AND HARDWARE				●			
SECURITY FILM (GP-02)							N/A
GLAZING FILM - LIFESTYLE GRAPHIC (GF-5)							N/A
FROSTED FILM (GF-6)							N/A
MIRRORS (MIR-03)	GC	GC	GC				
RIOT GLASS (GP-01)							N/A

DIVISION 09000 - FINISHES	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
DEMISING PARTITIONS (STUDS & INSULATION)				●			SEE PLANS FOR SCOPE OF WORK.
DEMISING PARTITIONS (GYPSUM WALLBOARD)				●	GC		SEE PLANS FOR SCOPE OF WORK.
DRYWALL: CEILING, WALLS, ENCLOSURES & REQ'D FRAMING	GC	GC	GC				PER USG AESTHETIC ASSEMBLIES, ALL DRYWALL (INCL. EXISTING TO REMAIN), WALLS TO RECEIVE "LEVEL 4" FINISH & CEILING "LEVEL 5"
ACOUSTICAL CEILING TILES & GRID (AC-8)	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS.
PAINTING, FINISHING, VARNISH, SEALER, ETC.	GC	GC	GC				
TRANSITIONS	*	*	*	●			*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS
CARPETING	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS. GC MUST INSTALL FLOOR PER FLOORING MFG SPECIFICATIONS.
FLOOR TILE	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS. GC MUST INSTALL FLOOR PER FLOORING MFG SPECIFICATIONS.
GROUT AND THINSET FOR TILE & ACCESSORIES	GC	GC	GC				*SEE SHEET A103 GENERAL NOTE 'K' FOR GROUT TOLERANCE
WALK-OFF MAT (MAT-2)	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS
WALL BASE	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS
FIBERGLASS REINFORCED PANELS (FRP-2)	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS
VINYL FLOOR TILE	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS.
CAULK / PAINTABLE CAULK	GC	GC	GC				
WALL COVERING (WC-190)	*	*	*				*SEE SHEET G020 FOR GC VS TENANT SUPPLIED ITEMS.

DIVISION 10000 - SPECIALTIES	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
RETAIL WALL SIGNAGE	T	T	T				G.C. TO COORDINATE SIGN INSTALLATION. GC RESPONSIBLE FOR ANY PRE-CONSTRUCTION REQUIRED FOR SIGN INSTALLATION.
GRAPHIC HOLDER	T	GC	GC				SEE FIXTURE PLAN FOR MORE INFORMATION
GRAPHICS	T	GC	T				SEE FIXTURE PLAN FOR MORE INFORMATION
ACCESSIBILITY SIGNAGE (LC09-GR32-###)	T	GC	GC				SEE FIXTURE PLAN FOR MORE INFORMATION
BRACKETS FOR FLOATING SHELVES	GC	GC	GC				SEE FIXTURE PLAN FOR MORE INFORMATION
FIRE EXTINGUISHERS (F.E. AND F.E. CABINETS)	GC	GC	GC				SUGGESTED QUANTITIES & LOCATION ON PLAN - FIRE MARSHALL TO DETERMINE FINAL QUANTITY & LOCATIONS
STOREFRONT SIGNAGE	T	T	T/GC				G.C. TO COORD. INSTALLATION. GC RESPONSIBLE FOR ANY PRE-CONSTRUCTION REQ'D FOR INSTALLATION, INCLUDING BLOCKING
AWNINGS							N/A
RESTROOM ACCESSORIES & HARDWARE	*	*	*				* SEE SHEET A210 FOR G.C. VS TENANT SUPPLIED ITEMS
LOCKERS (LKR)	T	GC	GC				
LED PANELS & ACCESSORIES							N/A
LIGHTBOX (LB01)	T	GC	GC				GC TO INSTALL PER MFG. SPECIFICATIONS.
DISPLAY MONITORS (DIG-#####)	T	GC	T				GC RESPONSIBLE FOR ANY PRE-CONSTRUCTION REQUIRED FOR MONITOR INSTALLATION.
DRAWING TUBE	GC	GC	GC				LOCATED ON PHONE BOARD

DIVISION 12000 - FURNISHINGS	SUPL	RCV.	INSTL	EXG.	P & R	RELO.	REMARKS
MILLWORK (RETAIL)	T	GC	GC				
MILLWORK (O.D.)	T	GC	GC				
MILLWORK (LAB)	T	GC	GC				
MILLWORK (EMPLOYEE AREA)	T/GC	GC	GC				SEE SHEET A100 FOR GC PROVIDED FURNITURE
PORTAL(S) (090##-00)							N/A
OD EQUIPMENT	T	T	T				G.C. TO COORDINATE TIMING FOR SCHEDULING
POS EQUIPMENT	T	GC	T				G.C. TO COORDINATE TIMING FOR SCHEDULING
LAB EQUIPMENT	T	T	T				G.C. TO COORDINATE TIMING FOR SCHEDULING
MERCHANDISE PROPS	T	GC	T				GC TO ACCEPT, UNLOAD, CHECK IN, UNWRAP & SET ALL PROPS NEATLY ON SHELVES. DISPOSE OF ALL TRASH.
FURNITURE (CHAIRS, BENCHES, TABLES, ETC.)	T	GC	GC				G.C. TO ASSEMBLE
STAPLES ACCESSORIES	T	GC	GC				LOCATION NOT SHOWN ON PLANS, COORDINATE PLACEMENT WITH ESSILOR LUXOTTICA PM
DOCTOR'S CERTIFICATES / LICENSE FRAMES	T	GC	GC				
REFRIGERATOR & MICROWAVE	T	GC	GC				
SAFE	T	GC	GC				G.C. TO BOLT TO FLOOR PER MANUFACTURER

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2 MECHANICAL, ELECTRICAL, PLUMBING, RESPONSIBILITY SCHEDULE

SEE RELATED SHEETS PER TRADE

2-LC09-G002-REV00

3 ACCESSIBILITY NOTES

1. THIS PROJECT WILL COMPLY WITH ALL FEDERAL REQUIREMENTS UNDER ICCC A117.1-2017 / NJAC 5:23-7 / CH. 11 IBC 2021
2. ALL DOORS LEADING TO REQUIRED ACCESSIBLE ROOMS AND SPACES SHALL HAVE CLEAR OPENING OF 32" WIDE, HAVE LEVER OPERATED HARDWARE (OR EQUAL), HAVE A MIN. OPENING FORCE OF 5 LBF.
3. ALL NEW OR ALTERED ENVIRONMENTAL CONTROL AND OPERATING MECHANISMS WILL COMPLY WITH ICC A117.1 SECTION 309 (OPERABLE PARTS BETWEEN 34" AND 48" A.F.F. WITH A 10" MAX OBSTRUCTION IN FRONT OF IT.)
4. ACCESSIBLE AUDIBLE AND VISIBLE ALARMS AND NOTIFICATION APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 LISTED IN SECTION 105.2.2. BE POWERED BY A COMMERCIAL LIGHT AND POWER SOURCE, BE PERMANENTLY CONNECTED TO THE WIRING OF THE PREMISES ELECTRIC SYSTEM, AND BE PERMANENTLY INSTALLED.
5. EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.
6. EXIT DOORS (INCLUDING EXISTING DOORS) SHALL NOT BE LESS THAN 36" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. PROJECTIONS INCLUDING PANIC HARDWARE, SHALL NOT REDUCE THE OPENINGS TO LESS THAN 32" IN CLEAR WIDTH.
7. HEIGHT OF THRESHOLDS AT EXIT DOORS SHALL BE 1/2" MAXIMUM.
8. CARPET PILE HEIGHT SHALL BE 1/2" MAXIMUM.
9. AISLES LEADING TO REQUIRED EXITS SHALL HAVE A MINIMUM WIDTH OF 44".
10. GLASS DOORS, ADJACENT PANELS, AND ALL GLAZED OPENINGS WITHIN 24" OF ADJACENT FLOORS SHALL BE TEMPERED GLASS.

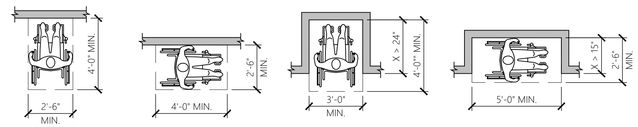
3-LC09-G002-REV02

4 ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	FIN.	FINISH	O.C.	ON CENTER
ADJ.	ADJACENT	FLR.	FLOOR	PL.	PLASTIC
A.F.F.	ABOVE FINISHED FLOOR	G.C.	GENERAL CONTRACTOR	RM.	ROOM
CLG.	CEILING	GWB	GYPSUM WALLBOARD	R.O.	ROUGH OPENING
C.J.	CONTROL JOINT	H.M.	HOLLOW METAL	S.C.	SOLID CORE
COL.	COLUMN	HT.	HEIGHT	SHLV	SHELVES
CONC.	CONCRETE	HVAC	HEATING/VENT./AIR CONDITIONING	SIM.	SIMILAR
CONT.	CONTINUOUS	INT.	INTERIOR	STL.	STEEL
DIM.	DIMENSION	LAM.	LAMINATE	STRL.	STRUCTURAL
DWG.	DRAWING	LOC.	LOCATION	TME.	TO MATCH EXISTING
EA	EACH	MEP	MECHANICAL ELECTRICAL PLUMBING	T.O.W.	TOP OF WALL
ELEC.	ELECTRIC	MECH.	MECHANICAL	TYP.	TYPICAL
EQ.	EQUAL	MTL.	METAL	U.L.	UNDERWRITERS LABORATORIES
EQUIP.	EQUIPMENT	MISC.	MISCELLANEOUS	U.N.O.	UNLESS NOTED OTHERWISE
ETR	EXISTING TO REMAIN	MOD.	MODIFY	VIF	VERIFY IN FIELD
EXT'G.	EXISTING	N.I.C.	NOT IN CONTRACT	VERT	VERTICAL
F.E.	FIRE EXTINGUISHER	N.T.S.	NOT TO SCALE	W/	WITH
		NO.	NUMBER	WD	WOOD

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5 ACCESSIBILITY DETAILS



WHEELCHAIR CLEAR FLOOR SPACE

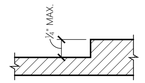
ICC 117.1 - SECTION 303 NOTES

303.1 GENERAL - CHANGES IN LEVEL IN FLOOR SURFACES SHALL COMPLY WITH SECTION 303.

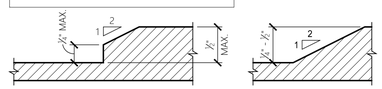
303.2 VERTICAL - CHANGES IN LEVEL OF ¼" MAXIMUM IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL.

303.3 BEVELED - CHANGES IN LEVEL GREATER THAN ¼" IN HEIGHT AND NOT MORE THAN ½" MAXIMUM IN HEIGHT SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

303.4 RAMP - CHANGES IN LEVEL GREATER THAN ¼" IN HEIGHT SHALL BE RAMPED AND SHALL COMPLY WITH SECTION 405 & 406.



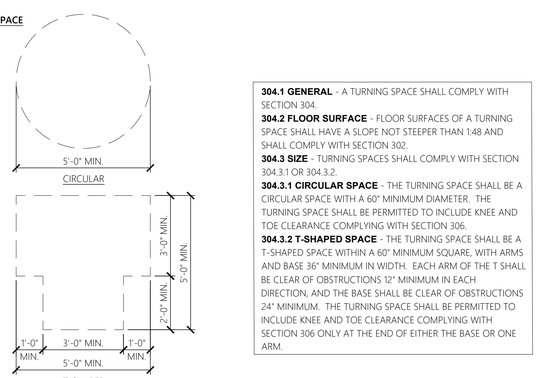
CARPET ON FLOOR SURFACES



BEVELED CHANGES IN LEVEL

CHANGES IN LEVEL

TURNING SPACE



304.1 GENERAL - A TURNING SPACE SHALL COMPLY WITH SECTION 304.

304.2 FLOOR SURFACE - FLOOR SURFACES OF A TURNING SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH SECTION 302.

304.3 SIZE - TURNING SPACES SHALL COMPLY WITH SECTION 304.3.1 OR 304.3.2.

304.3.1 CIRCULAR SPACE - THE TURNING SPACE SHALL BE A CIRCULAR SPACE WITH A 60" MINIMUM DIAMETER. THE TURNING SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306.

304.3.2 T-SHAPED SPACE - THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60" MINIMUM SQUARE, WITH ARMS AND BASE 36" MINIMUM IN WIDTH. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12" MINIMUM IN EACH DIRECTION, AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24" MINIMUM. THE TURNING SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

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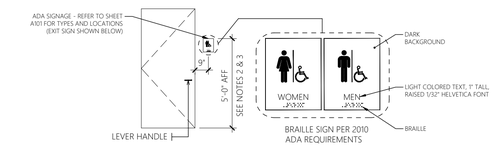
6 SYMBOLS

SYMBOL	DESCRIPTION
ELEVATION NO. (TYP.) / SHEET NO.	4 WAY ELEVATION
SECTION NO. / SHEET NO.	SECTION
ELEVATION NO. (TYP.) / SHEET NO. (TYP.)	WALL SECTION OR ELEVATION
DETAIL NO. / SHEET NO.	DETAIL
A / 1 (LETTERS "O" & "I" NOT TO BE USED)	BUILDING GRID LINES
MATERIAL (REFER TO SCHEDULE) / T T102 / FINISH (REFER TO SCHEDULE)	FINISH

SYMBOL	DESCRIPTION
-	ROOM NUMBER
-	DOOR
-	WALL TYPE
-	KEY NOTE
-	REVISION

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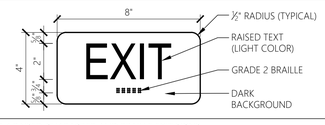
7 ACCESSIBILITY SIGNAGE



TYPICAL ADA MOUNTING LOCATION

NOTES, ICC A117.1 - SECTION 703 SIGNS:

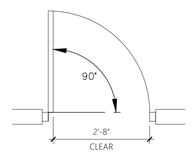
1. ALL SIGNAGE SHALL CONFORM WITH ADA ACCESSIBILITY GUIDELINES, INCLUDING BUT NOT LIMITED TO PROPORTION, COLOR CONTRAST AND RELIEF AND GRADE 2 BRAILLE REQUIREMENTS.
2. INSTALL WALL-MOUNTED SIGNS 48 INCHES MINIMUM ABOVE THE FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE TO THE HIGHEST TACTILE CHARACTER.
3. 703.3.11 LOCATION: THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT HANDED DOOR. WHERE THESE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL. SIGNS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE AREA 18" x 18" MIN, CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARCH OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS CONTAINING RAISED CHARACTERS AND BRAILLE SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.



NOTE: IBC - 1013.4 RAISED CHARACTER AND BRAILLE EXIT SIGNS:
A SIGN STATING "EXIT" IN VISUAL CHARACTERS, RAISED CHARACTERS AND BRAILLE AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EXIT STAIRWAY OR RAMP, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

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8 DOOR/HARDWARE DETAIL



DOORS ENTRANCES.
ALL PRIMARY ENTRANCES TO BUILDINGS AND FACILITIES ARE REQUIRED TO BE MADE ACCESSIBLE. A PRIMARY ENTRANCE IS DEFINED AS, "...ANY ENTRANCE TO A FACILITY WHICH HAS A SUBSTANTIAL FLOW OF PEDESTRIANS TO ANY SPECIFIC MAJOR FUNCTION OF THE FACILITY." REVOLVING DOORS CAN NOT BE USED AS A REQUIRED ENTRANCE FOR THE HANDICAPPED. RECESSED DOORMATS ARE REQUIRED TO BE ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAIR TRAFFIC.

DOOR WIDTHS AND HEIGHTS.
REQUIRED EXIT DOORWAYS ARE REQUIRED TO HAVE A CLEAR OPENING NOT LESS THAN 32 INCHES WIDE. FOR HINGED DOORS, THE OPENING IS MEASURED WITH THE DOOR AT A 90 DEGREE ANGLE FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS, INCLUDING AUTOMATIC DOORS, HAS TO PROVIDE THE 32 INCH CLEAR OPENING. DOOR HEIGHTS ARE REQUIRED TO BE A MINIMUM OF 80 INCHES.

HARDWARE.
HAND ACTIVATED DOOR OPENING HARDWARE IS REQUIRED TO BE CENTERED BETWEEN 34 AND 48 INCHES HIGH. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL HAVE TO BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE. BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS ARE REQUIRED TO OPERATE AT DESCRIBED ABOVE IN THE DIRECTION OF EGRESS.

CLOSERS.
THE MAXIMUM EFFORT TO OPERATE DOORS CANNOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. REQUIRED FIRE DOORS MAY REQUIRED UP TO 15 POUNDS PRESSURE. THE PRESSURE IS TO BE MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE REQUIREMENTS. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES (75 mm) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

THRESHOLDS.
THRESHOLDS ARE REQUIRED TO BE NO MORE THAN 1/2 INCH HIGH. BEVEL OR SLOPE THE EXPOSED EDGE AT AN ANGLE NOT EXCEEDING 45 DEGREES SO THAT NO SINGLE VERTICAL CHANGE OF ELEVATION EXCEEDS 1/4" INCH.

1. EXIT DOORS, TOILET ROOM AND CHANGING ROOM DOOR TO BE OPERABLE FROM INSIDE WITHOUT SPECIAL KNOWLEDGE, FORCE OR NEED OF KEY.
2. SEE SPECIFICATION SHEET FOR RESPONSIBILITIES.
3. ALL HARDWARE TO BE LEVER TYPE.

ENTRANCE SIGNS.
ALL BUILDINGS ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY HANDICAPPED PERSONS SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.

8-LC09-G002-REV00

DESIGN & CONSTRUCTION MANAGEMENT:

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NORTH AMERICA STORE DEVELOPMENT
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SUITE N129
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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

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NEW JERSEY REG. AI-13402

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☐ ADDENDUM

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RESPONSIBILITY SCHEDULE & TYPICAL INFO

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.: G002

SPECIFICATIONS (1 OF 3)

DIVISION 01000 - GENERAL REQUIREMENTS
01000 GENERAL NOTES
PART 1 - GENERAL
A. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLIMENTARY. SPECIFIC INFORMATION MAY BE FOUND IN EITHER OR BOTH.
B. BIDDING CONTRACTORS SHALL INCLUDE ALL LABOR, MATERIALS, SCAFFOLDING, CRANES, EQUIPMENT FASTENERS ETC. NECESSARY FOR COMPLETION AND FINAL COMPLETE TURNOVER OF AN OPERATIONAL RETAIL FACILITY.
C. THE TENANT HAS INDICATED AN INTENTION TO USE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-107 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AS PART OF THE CONTRACT DOCUMENTS FOR THIS WORK.
D. ALL PERSONS INTENDING TO PROVIDE GOODS OR SERVICES IN CONNECTION w/THE WORK ARE ADVISED TO READ AND UNDERSTAND THE APPLICABLE ADA DOCUMENTS PRIOR TO PROCEEDING.
E. THE TENANT HAS AWARDED SEPARATE CONTRACTS FOR SOME CONSTRUCTION WORK THAT WILL BE CONDUCTED SIMULTANEOUSLY WITH WORK UNDER THIS CONTRACT. GENERAL CONTRACTOR MUST COOPERATE WITH ALL OTHER CONTRACTORS SO THAT WORK UNDER THOSE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH, OR DELAYING WORK UNDER THIS CONTRACT.
F. PRIOR TO START OF CONSTRUCTION, GENERAL CONTRACTOR SHALL ARRANGE A MEETING WITH LANDLORD'S CONSTRUCTION REPRESENTATIVE TO REVIEW AND ESTABLISH ALL LANDLORD REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL CONSTRUCTION, SCHEDULES, WORKMAN PARKING, DELIVERY AND STORAGE OF MATERIALS, SAFETY PROTECTION, TRASH REMOVAL, SECURITY, AND DOCUMENTS REQUIRED FOR FINAL LANDLORD SIGN-OFFS. GENERAL CONTRACTOR IS TO NOTIFY TENANT'S CONSTRUCTION MANAGER IMMEDIATELY OF ANY ITEM THAT MAY AFFECT THE DESIGN INTENT OF THE DRAWINGS, OR RESULT.
G. ANY ITEMS DIRECTED BY LANDLORD, INSPECTORS, OR ANY OTHER AUTHORITY THAT AFFECTS THE DESIGN INTENT OF THE DRAWINGS, OR RESULTS IN ADDITIONAL COSTS OR SCHEDULE DELAYS SHOULD NOT BE PERFORMED UNTIL RECEIPT OF APPROVAL BY THE ARCHITECT AND TENANT'S CONSTRUCTION MANAGER. ALL CHANGES MUST IMMEDIATELY BE SUBMITTED IN WRITING TO THE ARCHITECT AND TENANT'S CONSTRUCTION MANAGER FOR REVIEW. SUBMISSION SHALL INCLUDE A GENERAL DESCRIPTION OF THE WORK REQUESTED, SIGNED BY THE REQUESTING AUTHORITY. IN ADDITION, SUBMISSION MUST INCLUDE A LABOR AND MATERIAL COST BREAKDOWN AND THE IMPACT TO THE CONSTRUCTION SCHEDULE.

01005 CONTRACTORS USE OF THE PREMISES.
PART 1 - GENERAL
A. THE GENERAL CONTRACTOR AND ALL CONTRACTORS BIDDING ON THIS PROJECT SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS AND TO CHECK FOR ANY INTERFERENCE BETWEEN THEIR WORK AND THAT OF OTHER TRADES AND/OR APPARENT VIOLATIONS OF LOCAL, STATE, OR FEDERAL CODES, LAWS, ORDINANCES, AND REGULATIONS BEFORE ENTERING INTO A CONTRACT WITH EITHER THE GENERAL CONTRACTOR AND/OR TENANT. IT IS MANDATORY FOR THE GC TO INSPECT THE SPACE PRIOR TO BIDDING.
1. ALL ITEMS SHALL BE INCLUDED IN THE BASE BID TO ACHIEVE THE FINAL PRODUCT INDICATED IN DRAWINGS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: CONCRETE FLOOR PREP, FLOOR SLAB X-RAYING, DEMISING WALL GYPSUM BOARD EXTENT AND CONDITION, REQUIRED FIRE PROOFING, ELECTRICAL PANELS, ELECTRICAL, WATER, SEWER, VENTS AND TELEPHONE CONDUITS, ANY LANDLORD REQUIRED FIRE PROTECTION SYSTEM OR TIE-INS TO BLDG. MANAGEMENT SYSTEMS, FIRE EXTINGUISHERS, AND STRUCTURAL REQUIREMENTS FOR TENANT'S EQUIPMENT.
2. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND TENANT IN WRITING BEFORE ENTERING INTO A CONTRACT WITH THE TENANT IF ANY INTERFERENCE OR VIOLATIONS APPEAR AND DEPARTURE FROM THE DESIGN INTENT OF THE DOCUMENTS IS REQUIRED.
3. FAILURE TO PROVIDE ARCHITECT AND TENANT'S CONSTRUCTION MANAGER WITH THE AFOREMENTIONED NOTIFICATION SHALL RESULT IN THE GENERAL CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK REQUIRED TO MEET THE DESIGN INTENT OF THE CONTRACT DOCUMENTS AT HIS/HER OWN COSTS WITH NO ADDITIONAL EXPENSES (EXTRAS) BEING INCURRED BY THE TENANT. EXTRAS WILL NOT BE ALLOWED FOR JOB SITE CONDITIONS THAT WERE READILY VISIBLE OR DETERMINED.
4. ALL SUB TRADES SHALL COORDINATE THEIR WORK WITH THE WORK OF OTHERS OR WITH EXISTING CONDITIONS OCCURRING ABOVE OR BELOW THE LEASED PREMISES AND SHALL MAKE CHANGES FROM TIME TO TIME AS REQUESTED TO ACCOMMODATE SUCH WORK OR CONDITIONS AT NO CHARGE TO TENANT.
5. CONTRACTORS SIGNS OR SIGNS OF ANY KIND MAY NOT BE DISPLAYED ON BARRICADES
6. THE G.C. SHALL BUILD ON SITE A TEMPORARY LOCKABLE STORAGE AREA. G.C. SHALL ACCEPT ALL TENANT SUPPLIED ITEMS AND STORE THEM SAFELY IN SUCH SPACE.

A. LAYOUT OF WORK
1. IMMEDIATELY AFTER DEMOLITION, GENERAL CONTRACTOR TO ADVISE TENANT OF ANY DISCREPANCIES IN OVERALL WIDTH, LENGTH, AVAILABLE CEILING HEIGHTS, COLUMN LOCATIONS, STOREFRONT, UTILITY LOCATIONS, ETC.
2. EXERCISE PROPER PRECAUTION TO VERIFY ALL EXISTING CONDITIONS AND LAYOUT OF CONTRACTOR TO NOTIFY TENANT OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR IS RESPONSIBLE FOR ANY ERROR RESULTING FROM FAILURE TO EXERCISE SUCH PRECAUTION. SUCH ERROR WILL NOT BE CONSIDERED SUBSEQUENTLY AS A BASIS FOR EXTRA COMPENSATION.
3. GENERAL CONTRACTOR IS TO LAYOUT WORK AND BE RESPONSIBLE FOR ALL LINES, MEASUREMENTS OF THE BUILDING, UTILITIES, AND OTHER WORK EXECUTED UNDER THE CONTRACT.
4. SHOULD A CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR SHOULD HE BE IN DOUBT AS TO THEIR MEANING, HE SHALL AT ONCE NOTIFY THE ARCHITECT AND TENANT.
B. CODES AND STANDARDS
1. ALL WORK, MATERIALS, AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL ORDINANCES, STATE AND LOCAL BUILDING CODES, LATEST EDITION. SEE TITLE SHEET FOR SPECIFIC EDITIONS.
2. DESIGN LOADS: LOADS AND CODE RESTRICTIONS FOR ALL DESIGN CONSIDERATIONS SHALL CONFORM TO THE LOCAL AND STATE CODES AND ALL GOVERNING CODES.
C. TRASH REMOVAL
1. ALL TRADES SHALL CONFINE CONSTRUCTION WORK TO WITHIN LEASED PREMISES AS MUCH AS POSSIBLE AND SHALL WORK IN AN ORDERLY MANNER REMOVING TRASH AND DEBRIS FROM PROJECT ON A DAILY BASIS INCLUDING TRASH AND DEBRIS GENERATED BY TENANT SUPPLIED AND/OR INSTALLED ITEMS. AT NO TIME WILL PIPES, WIRES, BOARD, OR OTHER CONSTRUCTION MATERIALS CROSS PUBLIC AREAS WHERE HARM COULD BE CAUSED TO THE PUBLIC.
2. MALL DOORS ARE NOT TO BE PROPPED OPEN BY CONSTRUCTION WORKERS AT ANY TIME.
3. THERE WILL BE NO STORAGE OF MATERIAL OR RUBBISH IN CORRIDORS OR OTHER LANDLORD AREAS AT ANY TIME. IF DEBRIS IS FOUND IN THIS AREA, IT WILL BE REMOVED AT THE EXPENSE OF THE GENERAL CONTRACTOR.
4. ALL SUB TRADES SHALL COORDINATE REMOVAL OF DEBRIS AND GARBAGE GENERATED BY THEIR TRADES WITH THE G.C.
5. THE G.C. SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS INCLUDING PACKAGING MATERIAL OF MILLWORK.
D. ROOF CUTTING AND PATCHING
1. CUTTING AND PATCHING FOR ALL ROOF OPENINGS SHALL BE PERFORMED BY LANDLORDS ROOFING CONTRACTOR, IF SO REQUIRED BY THE LANDLORD, ENGAGED AND PAID BY GENERAL CONTRACTOR.
2. THE LANDLORDS ROOFING CONTRACTOR WILL, AT SUBTRADES WRITTEN REQUEST AND COST, PROVIDE THE OPENINGS, ANCHORING DEVISES, CURBS, FLASHINGS, PATCHING, ETC., AS REQUIRED FOR TENANTS EQUIPMENT SO AS TO MAINTAIN THE INTEGRITY AND GUARANTEE OF THE ROOF. ALL SUBTRADES SHALL INCLUDE THE COST OF SUCH OPENINGS, ETC. IN THEIR PROPOSALS TO TO THE GENERAL CONTRACTOR DURING BIDDING. SUBTRADES SHALL COORDINATE WITH THE LANDLORD AND/OR ROOFING CONTRACTOR AND ALSO REIMBURSE HIM FOR SAME.
3. ROOF REPAIRS OR PENETRATIONS REQUIRED BY REMOVAL OR RELOCATION OF EXISTING EQUIPMENT OR INSTALLATION OF NEW EQUIPMENT (CUTTING OF ROOF AND DECK MATERIAL AND/OR REPAIR OF THE SAME) SHALL BE COORDINATED WITH THE LANDLORD'S REPRESENTATIVE.
E. DELIVERIES
1. GENERAL CONTRACTOR IS RESPONSIBLE FOR UNLOADING ALL TENANT PROVIDED ITEMS AT THE JOB SITE INCLUDING A HEAVY AMOUNT OF MILLWORK WHICH IS TENANT SUPPLIED. THESE TENANT SUPPLIED ITEMS SHALL BE THE G.C.'S RESPONSIBILITY TO UNLOAD, STORE, AND DELIVER TO PROPER STORE AREAS WHEN REQUIRED. SEE TITLE SHEET, "GENERAL NOTES", FOR ADDITIONAL NOTES, PROCEDURES, AND RESPONSIBILITIES.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE ACCEPTABLE HOURS FOR DELIVERY AND LOCATION OF DELIVERY OF BUILDING PRODUCTS AND TENANTS ITEMS WITH LANDLORD'S REPRESENTATIVE.

01041 PROJECT COORDINATION
PART 1 - GENERAL
A. ALL PROJECT COORDINATION SHALL BE THROUGH TENANT'S CONSTRUCTION MANAGER AS LISTED ON TITLE SHEET.
B. COMPLY WITH CONSTRUCTION MANAGER'S PROCEDURES FOR INTRA-PROJECT COMMUNICATIONS; SUBMITTALS, REPORTS AND RECORDS, SCHEDULES, COORDINATION DRAWINGS, RECOMMENDATIONS; AND RESOLUTION OF AMBIGUITIES AND CONFLICTS, INCLUDING REQUESTS FOR SUBSTITUTIONS AND CHANGE ORDERS.

01200 PRICE, PAYMENT, AND CONTRACT
PART 1 - GENERAL
A. BIDDING CONTRACTORS SHALL PREPARE A BID, WHICH SHALL BE SUBMITTED IN ACCORDANCE WITH INSTRUCTIONS TO BIDDERS CONTAINED WITHIN BID DOCUMENT PACKAGE.
B. PAYMENT SCHEDULE FOR PROJECT WILL BE ON A MONTHLY SUBMITTAL OF AIA DOCUMENT #G702 AND #G703 "APPLICATION AND CERTIFICATE FOR PAYMENT" UNLESS OTHERWISE REQUESTED BY TENANT.
C. CONTRACT SHALL BE AIA DOCUMENT #A107 "STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR".

01400 QUALITY/GUARANTEE
PART 1 - GENERAL
A. ALL WORK SHALL BE EXECUTED BY LICENSED TRADESMEN AND MECHANICS QUALIFIED, THROUGH EXPERIENCE, IN THEIR RESPECTIVE TRADES. SAID CONTRACTORS SHALL REMOVE AND REPLACE WITHOUT DELAY ANY WORK CONTRARY TO THE CONTRACT DOCUMENTS WHEN SPECIFICALLY DIRECTED.
B. GENERAL CONTRACTOR AND/OR SUB CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER.

01426 PROCEDURES
PART 1 - GENERAL
A. ALL ITEMS SHALL BE INSTALLED USING STANDARD PROFESSIONAL PRACTICES USING FASTENERS, ADHESIVES AND METHODS REQUIRED BY MANUFACTURER AND INDUSTRY MANUALS.

01510 TEMPORARY UTILITIES
PART 1 - GENERAL
A. GENERAL CONTRACTOR TO VERIFY PROVISIONS FOR TEMPORARY UTILITIES INCLUDING ELECTRICITY, LIGHTING, HEAT, VENTILATION, TELEPHONE SERVICE, WATER AND SANITARY FACILITIES. G.C. TO INCLUDE A FULL TIME PHONE AND FAX ON SITE CAPABLE OF INCOMING CALLS DURING ENTIRE CONSTRUCTION PERIOD.

01542 CRANES AND HOISTS
PART 1 - GENERAL
A. GENERAL CONTRACTOR AND/OR SUB-CONTRACTOR ARE RESPONSIBLE AND SHALL INCLUDE IN THEIR BIDS ALL NECESSARY EQUIPMENT INCLUDING CRANES, HOISTS, SCAFFOLDING, PLATFORMS, ETC., REQUIRED FOR ERECTION OF BUILDING COMPONENTS, EQUIPMENT AND ALL TENANT SUPPLIED ITEMS AS LOCATED ON PLANS. CONTRACTOR SHALL PAY ALL
1. RELATED FEES, PERMITS, ETC. PROTECTION OF THE PUBLIC AND EXISTING IN-PLACE WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

01700 CLEANING / ADJUSTING / MAINTENANCE / WARRANTIES
PART 1 - GENERAL
A. FINAL CLEANING
1. CONDUCT CLEANING AND REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH AND CONSTRUCTION DEBRIS FROM SITE TO COMPLY WITH LOCAL LAW, ORDINANCE FEDERAL AND ENVIRONMENTAL AND ANTIPOLLUTION REGULATIONS.
2. PROVIDE A PROFESSIONAL CLEANING SERVICE TO EXECUTE FINAL CLEANING PRIOR TO TURN-OVER.
3. CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHED TO A DIRTY-FREE CONDITION,FREE OF STAIN, FILMS, AND SIMILAR FOREIGN SUBSTANCES.
4. REPLACE AIR FILTERS.
5. LEAVE PROJECT CLEAN AND READY FOR OCCUPANCY.
B. ADJUSTING
1. ADJUST OPERATING PRODUCTS AND EQUIPMENT TO ENSURE SMOOTH AND UNHINDERED OPERATION.
C. OPERATION AND MAINTENANCE DATA
1. SUBMIT DATA BOUND IN 8-1/2x11 INCH TEXT PAGES, THREE D SIDE RING BINDER WITH DURABLE PLASTIC COVERS.
2. PREPARE BINDER COVER WITH PRINTED TITLE "OPERATION AND MAINTENANCE INSTRUCTIONS", WITH TITLE OF PROJECT, LOCATION AND DATE. THE HARD COPY BINDER SHOULD BE RETAINED ON SITE FOR STORE MANAGER'S USE, A COPY SHOULD ALSO BE SENT TO THE CONSTRUCTION PROJECT MANAGER VIA EMAIL AS A FILE COPY.
D. WARRANTIES AND BONDS
1. EXECUTE AND ASSEMBLE TRANSFERABLE WARRANTY DOCUMENTS FROM SUBCONTRACTORS, SUPPLIERS, AND MANUFACTURERS.

END OF DIVISION

DIVISION 02000 - SITE WORK
02060 BUILDING DEMOLITION
PART 1 - GENERAL
A. SELECTIVE DEMOLITION
1. THIS SECTION IS INCLUDED FOR GENERAL REFERENCE OF WORK TO BE REMOVED BY THE GENERAL CONTRACTOR.
2. CONSULT DEMOLITION PLANS INCLUDED WITH PROJECT DOCUMENTS FOR ADDITIONAL NOTES AND SITE SPECIFIC ITEMS.
3. DEMOLITION INCLUDES REMOVAL OF THE EXISTING INTERIORS, IF REQUIRED, BUT NOT LIMITED TO INTERIOR PARTITIONS, CABINETS, SUSPENDED CEILING TILE, ELECTRICAL, MECHANICAL, ETC., AS REQUIRED, AS SHOWN OR AS DIRECTED.
4. ALL ITEMS INDICATED OR REQUIRED TO BE DEMOLISHED OR REMOVED TO BE LEGALLY DISPOSED OF IN COORDINATION AND COMPLIANCE WITH ALL LANDLORD PROCEDURES AND REGULATIONS.
5. **GC TO COMPLY WITH ANY DEBRIS,/TRASH SEPARATION REQUIREMENTS IN PLACE WITH LL, JURISDICTIONS, OR PROJECT REQUIREMENTS FOR CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL.**
6. ALL ITEMS INDICATED TO BE RELOCATED OR REINSTALLED TO BE CLEANED, SERVICED AND PREPARED FOR PROPER RE-USE. ANY ITEMS STORED DURING CONSTRUCTION ARE TO BE PROTECTED TO AVOID DAMAGE OR THEFT
7. ALL ITEMS INDICATED AS EXISTING TO REMAIN , SHALL BE CLEANED, SERVICED AND PREPARED FOR PROPER CONTINUED RE-USE. PROTECT ALL ITEMS SUFFICIENTLY DURING CONSTRUCTION TO AVOID DAMAGE OR THEFT.
8. COOPERATE AND COORDINATE WITH LANDLORD, THE TENANTS OF THE ADJACENT SPACES AND THE TENANT, IN SCHEDULING WORK IN ORDER TO CAUSE THE LEAST INCONVENIENCE TO PERSONNEL AND PROPERTY.
9. SEE MECHANICAL AND ELECTRICAL PLANS FOR SPECIFIC DEMOLITION ITEMS UNDER THOSE TRADES.

PART 2 - PREPARATION / EXECUTION
A. ARRANGE WITH THE LANDLORD A CONVENIENT TIME TO PERFORM DEMOLITION WORK AND INSTALL TEMPORARY PROTECTED MEANS OF EGRESS FROM REQUIRED EXITS. INCLUDE TEMPORARY LIGHTING AND SAFETY DEVICES, ALL IN ACCORDANCE WITH GOVERNING STATE AND LOCAL CODES AND LAND-LORD REQUIREMENTS.
B. THE CONTRACTOR SHALL REMOVE, REPAIR, RESTORE, AND REPLACE WHERE ANY SUCH WORK IS NECESSARY OR AS INDICATED ON THE DRAWINGS. CUT ALL NECESSARY OPENINGS, AND PATCH/REPAIR/SEAL SAME TO DEGREE NECESSARY TO SATISFY ALL REQUIREMENTS. INSOFAR AS POSSIBLE, ALL PROTRUSIONS, MARKS, CRACKS OR OTHER EVIDENCE OF A DEFICIENT OR DAMAGED CONDITION SHALL BE ELIMINATED, UNLESS SPECIFICALLY NOTED OTHERWISE. ANY PARTS WHICH ARE SPLIT, CRACKED, CHIPPED, SPALLED, BROKEN, MISSING, OR OUT OF LINE OR ADJUSTMENT, MECHANICALLY OR STRUCTURALLY UNSAFE OR UNSOUND, BENT, TORN OR OTHERWISE DEFICIENT OR INJURED IN ANY MANNER, SHALL BE REMOVED, REPLACED, RESTORED OR REPAIRED. LANDLORD'S REPRESENTATIVE, ARCHITECT, AND TENANT'S CONSTRUCTION MANAGER MUST BE NOTIFIED IMMEDIATELY OF ANY STRUCTURAL OR SAFETY DEFECTS, AND ONLY THE TENANT'S CONSTRUCTION MANAGER IF THE DEFECT(S) ARE LIMITED TO COSMETIC FINISHES.
C. EXERCISE EXTREME CARE DURING DEMOLITION SO AS NOT TO DAMAGE OR DISRUPT ANY UTILITY OR SPRINKLER LINES WHICH MIGHT PASS THROUGH THIS SPACE TO SERVICE OTHER MALL SPACES OR TENANTS. GENERAL CONTRACTOR WILL BEAR SOLE RESPONSIBILITY OF ANY SUCH DISRUPTION OR DAMAGE.
D. ALL ABANDONED ELECTRICAL AND TELEPHONE CONDUIT, PLUMBING LINES,
A. DRAIN LINES, AND ALL MECHANICAL ITEMS SHALL BE CAPPED AT SOURCE AND REMOVED IN A MANNER TO MEET ALL LANDLORD AND CODE REQUIREMENTS, UNLESS DIRECTED OTHERWISE.

E. GENERAL CONTRACTOR RESPONSIBILITIES
1. GENERAL CONTRACTOR IS TO NOTIFY TENANT IMMEDIATELY OF ANY SEVERE DISCREPANCIES OR IRREGULARITIES DISCOVERED DURING DEMOLITION WHICH MIGHT AFFECT THE CURRENT STORE DESIGN. GENERAL CONTRACTOR IS TO PAY SPECIAL ATTENTION TO AVAILABLE HEIGHT FOR INTENDED CEILING ELEVATION, MECHANICAL DUCTWORK AND RECESSED LIGHTING.
2. GENERAL CONTRACTOR IS TO ERECT CONSTRUCTION BARRICADES AND DEBRIS/DUCT SCREENS PER LANDLORD'S SPECIFICATIONS. CONTACT LANDLORD'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ALL DEMOLITION WORK.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING, REPAIRING AND LEVELING OF THE EXISTING FLOOR SLAB, REPAIR OF DEMISING WALLS AND ROOF DECK AFTER COMPLETION OF ALL DEMOLITION AND PRIOR TO THE COMMENCEMENT OF NEW CONSTRUCTION.COORDINATE WITH LANDLORD RESPONSIBILITY IN PERFORMING ANY AND ALL ROOF WORK.

DIVISION 03000 - CONCRETE

03300 CAST-IN-PLACE CONCRETE
PART 1 - GENERAL
A. PROVIDE AND INSTALL CONCRETE AS INDICATED ON THE DRAWINGS.
B. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN CONCRETE INSTITUTE" CODES AND STANDARDS INCLUDING ACI 301, ACI 315, AND ACI 318.
C. CONCRETE STRENGTHS ARE AS FOLLOWS: CLASS 1 3000 PSI INTERIOR SLABS (OR MIN.REQUIRED PER LANDLORD SPECIFICATIONS.)
D. REINFORCEMENT (PER LANDLORD REQUIREMENTS)
E. BONDING AGENT (IF REQUIRED)
1. "SONOBOND" EPOXY CONCRETE BONDING AGENT OR EQUAL
a. MANUFACTURER: CHEMTREX, INC.
889 VALLEY PARK DRIVE
SHAKOPEE, MINNESOTA 55379-1854
2. CONSULT MANUFACTURER FOR APPLICATION PROCEDURE ASTM C881
F. VAPOR BARRIER
1. SLAB ON GRADES TO RECEIVE 6 MIL. CLEAR OR BLACK POLYETHYLENE FILM WITH MINIMUMOF 12" OVERLAP. TAPE ALL SEAMS.

PART 2 - PREPARATION / EXECUTION
A. CONCRETE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR STRENGTH, CONSISTENCY PROPORTIONS AND HANDLING OF CONCRETE.
B. VERIFY THAT COMPACTED GRANULAR BASE IS IN PLACE AND READY TO SUPPORT PAVING AND IMPOSED LOADS.
C. VERIFY GRADIENT AND ELEVATIONS OF BASE ARE CORRECT. THICKNESS AND REINFORCING AS SHOWN ON DRAWINGS.
D. IMMEDIATELY AFTER PLACEMENT, PROTECT PAVEMENT FROM MECHANICAL INJURY.
E. DEPOSIT CONCRETE WITHIN ANY ONE SECTION CONTINUOUSLY SO THAT NO CONCRETE WILL BE PLACED ON OLDER CONCRETE WHICH HAS SET SUFFICIENTLY TO RESULT IN SEAMS AND PLANES OF WEAKNESS WITHIN SECTION.
F. PLACE SLABS FOR FULL THICKNESS IN ONE OPERATION, WITHOUT CHANGES IN PROPERTIES; SCREED TO PROPER ELEVATION; FLOAT AND LIGHTLY TROWEL. UNLESS OTHERWISE SPECIFIED, WHEN CONCRETE HAS SET SUFFICIENTLY TO RING UNDER TROWEL, GIVE SLAB SECOND TROWELING TO PRODUCE SMOOTH, DENSE SURFACE. DUSTING OF SURFACES WITH CEMENT IS PROHIBITED.
G. SUBGRADE MATERIAL USED: REMOVAL OF ALL ORGANIC MATERIAL. COMPACT SUB GRADE FOR SLABS ON GRADE TO 95 CRUSHED GRAVEL SUB-BASE AT ALL AREAS TO RECEIVE NEW CONCRETE. MIN. 6" OF MATERIAL. RE-COMPACTION OF 95% OPTIMUM DENSITY.
H. FINISHES
1. GIVE TYPICAL INTERIOR FLOOR SLABS A STEEL TROWEL FINISH WITH CLASS A TOLERANCE (TRUE PLANES WITHIN 1/8 IN 10 FT. AS DETERMINED BY A 10 FOOT STRAIGHTEDGE PLACED ANYWHERE ON SLAB IN ANY DIRECTION).
I. PROVIDE SAW CUT CONTROL JOINTS 1/8" WIDTH x 1" DEEP AT MAXIMUM 400 SQUARE FOOT AREA.
J. APPLY BONDING AGENT (AS SPECIFIED) TO ADJACENT CONCRETE SURFACES IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE.

03732 CONCRETE REPAIR
PART 1 - GENERAL
A. THE EXTENT OF CONCRETE REPAIR WORK INCLUDES REMAINING FLOOR AREAS AFTER DEMOLITION PROVIDING A LEVEL FLOOR THROUGHOUT TO RECEIVE FUTURE FINISHES, AFTER DEMOLITION.
B. COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR INSTALLATION OF ITEMS AND FINISHES BY OTHER TRADES, INCLUDING THOSE ITEMS AND FINISHES PROVIDED AND/OR INSTALLED BY TENANT.
C. FLOOR LEVELER CONCRETE TO BE INSTALLED AT LOW AREAS, HOLES AND DEPRESSIONS. PATCH CRACKS AND BROKEN CONCRETE WITH FLOOR PATCH TROWELED SMOOTH IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND LANDLORD SPECIFICATIONS. UNDERLAYMENT COMPOUND TO BE FREE FLOWING, SELF-LEVELING, PUMPABLE, AND CEMENT-BASED FOR APPLICATIONS FROM ONE INCH THICK TO FEATHERED EDGES.

PART 2 - PREPARATION / EXECUTION
A. CONCRETE REPAIR
1. DO NOT PROCEED WITH WORK UNTIL VISITING THE SITE AND DETERMINING CONDITIONS TO DECIDE METHODS OF REPAIR. COORDINATE WITH TENANT'S CONSTRUCTION MANAGER.
2. REMOVE AND DISPOSE OF EXISTING FLOOR FINISHES WHERE INDICATED ON DEMOLITION PLAN.
3. THOROUGHLY CLEAN FLOOR SLAB REMOVING CONDITIONS THAT WILL AFFECT BOND INCLUDING RESIDUE FROM REMOVAL OF ADHESIVES, UNDERLAYMENTS, STAINS, OILS, ETC.
4. REMOVE HIGH FLOOR LEVELS AND LOOSE CONCRETE.
5. ROUGH IN CONCRETE IN AREAS WHERE PATCHING IS REQUIRED, SUCH AS CRACKED, SPALLED, OR HOLES DUE TO REMOVAL OF EXISTING WORK.
6. GRIND HIGH SPOTS.
7. AT LOCATIONS OF CONSTRUCTION JOINTS IN EXISTING SLAB, CONTINUE JOINTS THROUGH NEW FLOOR IN LEVELING AREA. SAW CUT JOINT OR PLACE 1/16" WIDE METAL BAR IN THE JOINT LOCATION COINCIDENT WITH EXISTING.
8. TRENCH ONLY AT SLAB ON GRADE. VERIFY AND GET APPROVAL OF TRENCH OR CORE LOCATIONS WITH THE LANDLORDS REPRESENTATIVE AND MALL STRUCTURE PRIOR TO COMPLETING ANY WORK. CORES TO BE SEALED WATERPROOF. SEE SECT. 07200 "INSULATION AND WATERPROOFING" FOR ADDITIONAL WATERPROOFING INFORMATION.
9. CLEAN AREAS REMOVING ALL WASTE MATERIAL, BROOM CLEAN.

DIVISION 04000 - MASONRY
NO WORK UNDER THIS SECTION

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NEW JERSEY REG. AI-13402

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SPECIFICATIONS (2 OF 3)

DIVISION 05000 - METALS

05120 STRUCTURAL STEEL

PART 1 - GENERAL

A. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY FOR COMPLETE INSTALLATION OF STEEL FRAMING AND SUPPORT MEMBERS, ANGLES, PLATES, ANCHOR BOLTS REQUIRED FOR THE CONNECTION, SETTING AND BEARING OF COMPLETE STRUCTURE AS SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.
B. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL SPECIFICATIONS / STANDARDS.
C. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE PROJECT IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS AND ADEQUACY OF TEMPORARY SUPPORT DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUY OR TIE DOWNS MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT AND SHALL REMAIN CONTRACTOR'S PROPERTY.
D. PROVIDE OPENINGS AND SPECIAL FRAMING REQUIRED BY OTHER TRADES. MECHANICAL FRAMING LOADS, OPENINGS, AND STRUCTURE RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN WRITTEN SIGN-OFF FROM MECHANICAL AND OTHER TRADES FOR SPECIFIC REQUIREMENTS BEFORE PROCEEDING WITH SUCH WORK. ARCHITECT'S OR ENGINEER'S APPROVAL OF ERECTION AND SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR FROM THIS RESPONSIBILITY.
E. VERIFY THE EXACT SIZE AND LOCATION OF ALL OPENINGS PRIOR TO FABRICATION OF STEEL FRAMING MEMBERS.
F. SHOP DRAWINGS: SUBMIT STAMPED/SEAL SHOP DRAWINGS TO ARCHITECT INDICATING SHOP AND ERECTION DETAILS, INCLUDING CUTS, CONNECTIONS, HOLES, THREADED FASTENERS AND WELDS.
G. PRE-ASSEMBLE ITEMS IN SHOP TO GREATEST POSSIBLE EXTENT TO MINIMIZE FIELD SPLICING AND ASSEMBLY. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. CLEARLY MARK UNITS FOR RE-ASSEMBLY AND COORDINATE INSTALLATION.
H. WELDING PROCEDURES, WELDERS, WELDING OPERATIONS AND TACKERS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS-D1.1- "STRUCTURAL WELDING CODE".
I. **"HOT WORK PERMIT" SHOULD BE PULLED AS NEEDED AND REQUIRED. HOT AND WELDING WORK, SHOULD BE EXECUTED PER LL. RULES AND REGULATIONS.**
J. FABRICATOR SHALL BE A MEMBER OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
K. FABRICATE STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE".
   1. UNLESS OTHERWISE SHOWN, FABRICATOR SHALL DESIGN / DETAIL CONNECTIONS IN CONFORMANCE WITH AISC STANDARD FOR FORCES AND MOMENTS SHOWN.
   2. WHERE FASTENING SPACINGS OR SIZES ARE NOT SHOWN, CONTRACTOR SHALL USE SPACINGS AND SIZES OF BOLTS, SCREWS, WELDS, ETC., WHICH WILL DEVELOP THE FULL STRENGTH OF THE MEMBERS BEING FASTENED. THUS FAILURE DUE TO OVER-STRESSING MUST OCCUR IN THE MEMBERS BEFORE OCCURRING IN THE FASTENINGS.

PART 2 - PREPARATION / EXECUTION

A. PRE-ASSEMBLE ITEMS IN SHOP TO GREATEST POSSIBLE EXTENT TO MINIMIZE FIELD SPLICING AND ASSEMBLY. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. CLEARLY MARK UNITS FOR RE-ASSEMBLY AND COORDINATE INSTALLATION.
B. SHOP CONNECTIONS SHALL BE WELDED.
C. FIELD CONNECTIONS: HIGH STRENGTH FASTENERS SHALL BE USED FOR BOLTED CONNECTIONS.
   1. STRUCTURAL STEEL FY 36 KSI STEEL, ASTM A36.
   2. STRUCTURAL STEEL TUBING: FY 46 KSI COLD-FORMED TUBING EXCEPT ROUND, ASTM A500-68, GRADE B.
   3. STEEL PIPE: ASTM A53, GRADE B.
   4. ANCHOR BOLT: CONFORM TO ASTM A307.
   5. WELDING ELECTRODES: ASTM A233, E-70 OR BETTER.
   6. HIGH STRENGTH THREADED FASTENERS: ASTM A325 OR A-490.
   7. METAL STUDS: SIZE ACCORDING TO CONSTRUCTION DOCUMENTS x 20 GAUGE STEEL AT 16" O.C. TRACKS TO BE ANCHORED BY MEDIUM POWER ACTUATED FASTENERS @ 24" O.C.
   8. EXTERIOR / INTERIOR METAL STUDS: SIZE ACCORDING TO CONSTRUCTION DOCUMENTS X 25 GAUGE AT 16" O.C..
   9. SHOP PAINT PRIMER: STANDARD PRIMER:
      a. SSPC PAINT 15
      b. TNEMEC 1009 GRAY METAL PRIMER
      c. MARTIN-SENOUR CO. #664 RED OXIDE ZINC CHROMATE PRIMER
      d. PRATT AND LAMBERT NOXIDE 107, ONE DAY PRIMER-GRAY.
      e. STEEL SHALL BE CLEAN AND FREE FROM OIL, DIRT, LOOSE MILL SCALE AND ANY OTHER SUBSTANCE THAT WOULD IMPAIR WELDING, PERFORMANCE OF FRICTION-TYPE BOLTED.

05400 METAL FRAMING

LIGHT GAUGE (COLD-FORMED) METAL FRAMING

PART 1 - GENERAL

A. FURNISH AND INSTALL A COMPLETE SYSTEM OF LIGHT GAUGE FRAMING MEMBERS FOR INTERIOR WALL PARTITIONS AND CEILING SUSPENSION COMPONENTS.
   9. SYSTEM TO INCLUDE ALL TOP AND BOTTOM RUNNERS, BRACES, CLIP ANGLES, ACCESSORIES, FASTENERS, ETC. FOR EACH TYPE OF FRAMING AS SHOWN ON DRAWINGS.
      a. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
B. QUALITY ASSURANCE - DESIGN AND ANALYSIS OF STRUCTURAL PROPERTIES SHALL COMPLY WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS".
C. MATERIALS:
   1. 18 GAUGE AND LIGHTER COMPONENTS: FABRICATE COMPONENTS OF COMMERCIAL QUALITY STEEL SHEET, ASTM A446 FOR GALVANIZED FINISH WITH A MINIMUM YIELD POINT OF 33,000 PSI.
   2. 16 GAUGE AND HEAVIER COMPONENTS: FABRICATE COMPONENTS OF STRUCTURAL QUALITY STEEL SHEET, ASTM A446 FOR GALVANIZED FINISH WITH A MINIMUM YIELD POINT OF 50,000 PSI.
   3. METAL STUDS: AISI "C" TYPE STRUCTURAL STUDS; SIZES, GAUGES AND SPACINGS SHOWN OR REQUIRED IF NOT SHOWN; WITH 1-5/8" (41MM) MINIMUM FLANGE WIDTH, 1/2" (13MM) MINIMUM RETURNS AND PRE-PUNCHED HOLES FOR UTILITY INSTALLATION.
      a. 18-22 GAUGE (0.05" / 1.2MM - 0.03" / 0.8MM): ASTM A446/A446M GRADE A; MINIMUM YIELD STRESS OF 33 KSI (228 MPA).
      b. 12-16 GAUGE (0.11"/2.7MM - 0.06"/1.5MM): ASTM A446/A446M GRADE A; MINIMUM YIELD STRESS OF 40 KSI (276 MPA).
   4. TRACK: ASTM A446/A446M GRADE A; MINIMUM YIELD STRESS OF 33 KSI (228 MPA); FORMED STEEL: CHANNEL SHAPED; SAME WIDTH AND GAUGE AS ADJACENT STUDS. EXCEPTION: TOP AND BOTTOM TRACK (RUNNERS) REQUIRING ATTACHMENT OF METAL PANELS SHALL BE MINIMUM 14 GAUGE (0.08"/1.9MM).
   5. FASTENINGS:
      a. MANUFACTURER'S RECOMMENDED SELF-DRILLING, SELF-TAPPING SCREWS, BOLTS, NUTS AND WASHERS. NON-CORROSIVE.
      b. ANCHORAGE DEVICES: POWER ACTUATED FASTENERS, DRILLED EXPANSION BOLTS, OR SCREW WITH SLEEVES.
      c. WELDING: COMPLY WITH AWS D1.1 "STRUCTURAL WELDING CODE".
A. MANUFACTURERS:
   1. MILCOR / DIVISION OF INRYCO, INC. BY BOSTWICK STEEL FRAMING, THE CECO ALLIED STRUCTURAL INDUSTRIES; DIETRICH INDUSTRIES OR EQUAL.

06100 WOOD BLOCKING AND CURBING

PART 1 - GENERAL

A. PROVIDE AND INSTALL WOOD FURRING, BLOCKING, GROUNDS AND IN-WALL BLOCKING FOR SUPPORT OF GRAB BARS, FIXTURES, EQUIPMENT, CASEWORK, HARDWARE, TRIM AND SIMILAR WORK.
   1. BLOCKING AND GROUNDS AT STOREFRONT GLAZING , LOCATIONS AT WEATHER AREAS, AND IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
   2. USE NON-COMBUSTIBLE FIRE RETARDANT TREATED (F.R.T.) WOOD ELSEWHERE AS REQUIRED AND APPROVED BY STATE AND LOCAL CODES, INCLUDING ANY WOOD STUDS, BLOCKING, FURRING, PLYWOOD, TRIM AND GROUNDS. NEW LUMBER TO BEAR GRADE AND TREATMENT OF ASSOCIATION UNDER WHICH IT WAS PRODUCED.
      a. PRESERVATIVE TREATMENT FOR WOOD SPECIFIED ELSEWHERE.

1) PERFORMANCE REQUIREMENTS:
   a. MOISTURE CONTENT: AFTER TREATMENT, THE MAXIMUM MOISTURE CONTENT OF WOOD MATERIALS SHALL NOT EXCEED THE FOLLOWING:
      i.a. LUMBER, 2 INCHES AND LESS IN THICKNESS: 19 PERCENT.
      i.b. PLYWOOD: 15 PERCENT
   b. FLAME SPREAD: FIRE RETARDANT TREATED MATERIALS TO HAVE FLAME SPREAD RATING OF 25 OR LESS IN A 30 MINUTE TEST WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION, ASTM E 84, ADDITIONALLY, FLAME FRONT NOT TO PROGRESS MORE THAN 10 1/2 FEET BEYOND CENTER LINE OF BURNER AT ANY TIME.
   c. SMOKE DEVELOPED: INTERIOR FINISH AND TRIM MATERIALS, WHERE SPECIFIED, TO HAVE FIRE RETARDANT TREATMENT CONFORMING TO ABOVE REQUIREMENTS FOR "FLAME SPREAD" PLUS SMOKE DEVELOPED RATING OF 25 OR LESS, ASTM E 84.
   d. CERTIFICATES: FURNISH AFFIDAVIT IF REQUIRED BY CODE OFFICIAL STATING THAT MATERIALS HAVE BEEN TREATED IN ACCORDANCE WITH SPECIFICATIONS AND THAT MOISTURE CONTENT, AFTER TREATMENT, DOES NOT EXCEED SPECIFIED LIMITS; INCLUDE CHEMICAL USED AND RETENTION OBTAINED FOR PRESSURE TREATED MATERIAL. INCLUDE THE "QUALITY MARK" OF ASSOCIATION HAVING JURISDICTION OVER THE TREATMENT. ALL CERTIFICATES TO BE COPIED TO ESSILOR LUXOTTICA PROJECT MANAGER.
   e. DELIVER TREATED MATERIALS BUNDLED AND MARKED TO IDENTIFY TREATMENT.
   f. STORE TREATED MATERIALS FOR EASY IDENTIFICATION AND PROTECT FROM MOISTURE; PROVIDE WELL VENTILATED DRY STORAGE.
   g. HANDLE TREATED MATERIALS IN ACCORDANCE WITH AWPA STANDARDS. IN ADDITION TO USED IN TREATMENT, FURNISH ADDITIONAL MATERIAL FOR FIELD TREATMENT \ MATERIAL OF CUTS.
   h. FIELD CUTS AND HOLES: FIELD-TREAT IN ACCORDANCE WITH AWPA M-4.

TELEPHONE AND ELECTRICAL PANEL BACK BOARDS.

PART 2 - PREPARATION / EXECUTION

A. SET MEMBERS LEVEL AND PLUMB, IN CORRECT POSITION.
B. INSTALL TELEPHONE AND ELECTRICAL PANEL BACK BOARDS WITH PLYWOOD SHEATHING MATERIAL WHERE REQUIRED. SIZE THE BACK BOARD BY 12 INCHES BEYOND SIZE OF ELECTRICAL PANEL.
C. BACKBOARD TO BE PAINTED MATCH ADJACENT WALL FINISHES.

06210 MILLWORK AND FINISH CARPENTRY

PART 1 - GENERAL

A. FURNISH AND INSTALL FINISHED TRIM, CABINETRY, COUNTERS, DOORS, AND ALL FINISH ITEMS SUCH AS LAMINATES AND FINISH DOOR HARDWARE, AS INDICATED AND DETAILED ON PLANS.
B. SEE DRAWINGS AND RESPONSIBILITY SCHEDULE FOR DETAILS, SIZES, DIMENSIONS.
C. FOLLOW AWI (ARCHITECTURAL WOODWORK INSTITUTE) ARCHITECTURAL WOODWORK QUALITY STANDARDS.

PART 2 - PREPARATION / EXECUTION

A. DO NOT DELIVER OR INSTALL ITEMS UNTIL BUILDING AND ROOMS RECEIVING SUCH ARE COMPLETED AND THOROUGHLY DRY AND FREE OF EXCESSIVE MOISTURE.
B. MILLWORK AND CABINETRY MAY BE SHOP OR FIELD ASSEMBLED AT CONTRACTORS OPTION.
C. INSTALL ITEMS IN A RIGID, STRAIGHT, PLUMB, LEVEL MANNER ACCURATELY FITTED AND SCRIBED TO ABUTTING SURFACES.
D. COUNTERSINK NAILS AND SCREW HEADS AND PATCH AND SAND SMOOTH.
E. CUTTING AND REPAIRING OF THIS WORK FOR ACCOMMODATION OF WORK BY OTHERS SHALL BE DONE AS PART OF MILLWORK RESPONSIBILITY.
F. FINISH WOODWORK SHALL BE DRESSED AND SANDED, FREE FROM MACHINE AND TOOL MARKS, ABRASIONS, RAISED GRAIN OR OTHER DEFECTS.
G. PROTECT FINISHED WORK UNTIL ACCEPTANCE, PROTECTION OF OWNERS COMPLETED MILLWORK SHALL BE RESPONSIBILITY OF GC.

06424 LAMINATES

PART 1 - GENERAL

A. INSTALL HIGH PRESSURE LAMINATES AS SPECIFIED IN FINISH SCHEDULE AND AS DETAILED IN DRAWINGS.

PART 2 - PREPARATION / EXECUTION

A. FOLLOW MANUFACTURERS GUIDELINES AND RECOMMENDATIONS FOR ADHESIVE AND SUBSTRATE PREPARATION.
B. SEE MILLWORK SECTION FOR TYPICAL NOTES AND REFERENCES.

END OF DIVISION

DIVISION 07000 - THERMAL AND MOISTURE PROTECTION

07200 INSULATION AND WATERPROOFING

PART 1 - GENERAL

A. FOR INSULATION REQUIRED AT DUCTWORK, PLUMBING LINES, ETC. SEE MEP SPECIFICATIONS AND DRAWINGS.
B. BATT INSULATION
   1. FURNISH AND INSTALL 3 1/2" MIN. THERMAL BATT TYPE INSULATION AT EXTERIOR WALLS OR AS SOUND ATTENUATION BLANKET WHERE SHOWN AND AS SPECIFIED ON DRAWINGS.
   2. EXTEND FROM FLOOR TIGHT TO ROOF DECK ABOVE.
   3. FURNISH AND INSTALL .004 MIL. VISQUEEN VAPOR BARRIER AT EXTERIOR WALLS ON WARM SIDE OF STUDS.
C. GENERAL CONTRACTOR TO PROVIDE AND INSTALL WATERPROOFING MEMBRANE OVER ENTIRE FLOOR OF REST ROOMS BELOW FINISH FLOORING AND UP WALL A MIN. 6". (ONLY WHERE REST ROOMS ARE LOCATED ABOVE ANOTHER FLOOR.) APPLY PER MANUFACTURERS INSTRUCTIONS AND CAULK AS REQ'D. TO MATCH ADJACENT FINISHES. FOLLOW LL REQUIREMENTS IN REGARD TO WATERPROOF MEMBRANES. GC IS RESPONSIBLE TO HAVE LL INSPECT AND APPROVED ALL SUCH INSTALLATIONS.
D. G.C. SHALL SLEEVE, FIRESTOP, FLASH AND CAULK ALL PENETRATIONS OF FLOORS SO THAT ODORS OR LIQUIDS WILL NOT PENETRATE THE SLAB AT THESE OPENINGS. SUCH SLEEVES SHALL BE INSTALLED ACCORDING TO THE LANDLORD STANDARD DETAILS

07900 JOINT SEALERS / CAULKING

PART 1 - GENERAL

A. PROVIDE AND INSTALL EXPANSION JOINT MATERIAL, SEALANTS AND JOINT BACKING FOR JOINTS BETWEEN DISSIMILAR MATERIALS.
   1. SILICONE SEALANTS (TYPE S): ASTM C920, SINGLE COMPONENT, NON-SAGGING, NON-STAINING, NON-BLEEDING; FOR USE AS GENERAL CAULKING. COLOR TO MATCH ADJACENT SURFACES. MANUFACTURER BY GE SILICONES OR EQUAL.2. JOINT BACKING: ROUND, OPEN CELL POLYETHYLENE FOAM ROD.

PART 2 - PREPARATION / EXECUTION

A. REMOVE LOOSE MATERIALS AND FOREIGN MATTER WHICH MIGHT IMPAIR ADHESION OF SEALANT.
B. CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
C. PROTECT ELEMENTS SURROUNDING THE WORK OF THIS SECTION FROM DAMAGE OR DISFIGURATION.
D. INSTALL SEALANT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
E. INSTALL JOINT BACKING.
F. APPLY SEALANT WITHIN RECOMMENDED APPLICATION TEMPERATURE RANGES. CONSULT MANUFACTURER WHEN SEALANT CANNOT BE APPLIED WITHIN THESE TEMPERATURE RANGES.

END OF DIVISION

DIVISION 08000 - DOORS AND WINDOWS

08100 HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

A. INSTALL ALL DOORS, FRAMES, HARDWARE AND RELATED PARTS AND MATERIALS AS INDICATED ON DRAWINGS AND RESPONSIBILITY SCHEDULE.
B. LABELED DOORS: WHERE REQUIRED, PROVIDE U.L. LABEL DOORS AND FRAMES PER APPLICABLE STATE AND LOCAL BUILDING CODES. SUCH TO RECEIVE LABELS ATTACHED STATING RATINGS.
C. FABRICATE AND ERECT TRUE, PLUMB AND SQUARE AS SPECIFIED AND AS DETAILED AND PER MANUFACTURER'S RECOMMENDATIONS.
D. INTERIOR HOLLOW METAL DOORS AND FRAMES FOR INSTALLATION AT DRYWALL AND METAL STUD PARTITIONS.
   1. DOORS - 1 3/4" THICK FLUSH MOUNTED "TYPE B" AS MANUFACTURED BY STEELCRAFT. SURFACES TO BE PHOSPHATIZED AND RECEIVE ONE COAT BAKED ON PRIMER READY TO RECEIVE PAINT.
      a. SEE DOOR SCHEDULE FOR REQUIRED HARDWARE.
      b. PROVIDE 8 GA. REINFORCEMENT AT HINGES, AND 14 GA. REINFORCEMENT AT LOCK AND CLOSERS.
   2. FRAMES - 2" FRONT FACE - 16 GA. HOLLOW METAL WITH CONTINUOUSLY WELDED CORNERS. SURFACES TO BE PHOSPHATIZED AND RECEIVE ONE COAT BAKED ON PRIMER READY TO RECEIVE PAINT.
      a. PROVIDE 8 GA. REINFORCEMENT AT HINGES AND 14 GA. REINFORCEMENT AT LOCK AND CLOSERS.
      b. INSTALL ADJUSTABLE JAMB ANCHOR 4" DOWN FROM HEAD AND WELDED-IN BASE ANCHOR AT EACH JAMB.

PART 2 - PREPARATION /EXECUTION

A. INSTALL FRAMES IN ACCORDANCE WITH SDI-100.
B. COORDINATE WITH WALL CONSTRUCTION FOR ANCHOR PLACEMENT.
C. COORDINATE INSTALLATION OF FRAMES WITH INSTALLATION OF DOORS AND HARDWARE AS SPECIFIED IN DOOR SCHEDULE AND ON DRAWINGS.

FOLLOW DOOR HARDWARE INSTITUTE (DHI) GUIDELINES.

08110 INSULATED STEEL DOORS

PART 1 - GENERAL

A. NON-RATED THERMALLY INSULATED STEEL DOORS AT EXTERIOR OPENINGS.
   1. DOORS THERMALLY INSULATED L-16 WITH POLYSTYRENE CORE (R=7.7): SDI-100 GRADE AS MANUFACTURED BY STEELCRAFT, CINCINNATI, OHIO, OR EQUAL. FRAMES TO BE PHOSPHATIZED AND RECEIVE ONE COAT BAKED ON PRIMER READY TO RECEIVE PAINT.
      a. SEE DOOR SCHEDULE FOR REQUIRED HARDWARE.
      b. PROVIDE 14 GA. REINFORCEMENT AT CLOSER AND LOCKS AND 8 GA. REINFORCEMENT AT HINGES.
   2. FRAME - 12 GA. COLD ROLLED STEEL, ARC WELDED AT CORNERS AND GROUND SMOOTH AS MANUFACTURED BY STEELCRAFT OR EQUAL. FRAMES TO BE PHOSPHATIZED AND RECEIVE ONE COAT BAKED ON PRIMER READY TO RECEIVE PAINT.
      a. PROVIDE 14 GA. REINFORCEMENT AT CLOSER AND LOCKS AND 8 GA. REINFORCEMENT AT HINGES.
      b. INSTALL MINIMUM THREE (3) JAMB ANCHORS AND BASE ANCHORS EACH SIDE.

PART 2 - PREPARATION / EXECUTION

A. INSTALL FRAMES IN ACCORDANCE WITH SDI-100.
B. COORDINATE WITH MASONRY WALL CONSTRUCTION FOR ANCHOR PLACEMENT.
C. COORDINATE INSTALLATION OF FRAMES WITH INSTALLATION OF HARDWARE SPECIFIED IN DOOR SCHEDULE. FOLLOW DOOR HARDWARE INSTITUTE (DHI) GUIDELINES.

08400 ALUMINUM ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

A. THIS SECTION INCLUDES ALL ALUMINUM/GLASS DOORS, DOOR HARDWARE SPECIFICALLY SUPPLIED BY DOOR MANUFACTURER, EXTRUDED ALUMINUM GLAZING FRAMES COMPLETE WITH ACCESSORIES AND GLASS AS DETAILED ON THE DRAWINGS AND RESPONSIBILITY SCHEDULE.
   1. ALUMINUM/TEMPERED GLASS ENTRANCE DOORS. REFER TO STOREFRONT ELEVATIONS, DETAIL AND DOOR SCHEDULE FOR SPECIFICATION ABOUT MATERIAL, FINISH AND HARDWARE.
      a. HARDWARE - TO INSURE SINGLE SOURCE RESPONSIBILITY, THE FOLLOWING SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR HINGES - TOP PATCH AND BOTTOM PIVOTS CLOSERS - PUSH/PULLS - LOCKS - THRESHOLDS
      b. MANUFACTURERS: KAWNEER COMPANY, INC. , NORCROSS, GA UNITED STATES ALUMINUM CORP., ROCK HILL SC
      c. FINAL FINISHES MUST MATCH EXACTLY. COLORS TO BE AS SPECIFIED ON FINISH SCHEDULE.
B. ALUMINUM GLAZING FRAME.
   1. KAWNEER (SEE PARAGRAPH 3 OF THIS SECTION) TRIFAB II 451 SERIES, (MULLION, RAIL, POST AND BASE SIZES AS PER PLANS AND DETAILS) FOR INFILL WITH 1/2" CLEAR TEMPERED GLASS.
   2. PROVIDE AND INSTALL ALL INTERNAL SUPPORT FRAMING, RELATED FLASHINGS, ANCHORAGE AND ATTACHMENT DEVICES.
   3. MANUFACTURERS: KAWNEER COMPANY, INC., NORCROSS, GA UNITED STATES ALUMINUM CORP., ROCK HILL, SC
   4. FINAL FINISH MUST MATCH EXACTLY COLORS AS SPECIFIED ON FINISH SCHEDULE, IF EXACT COLOR IS NOT AVAILABLE THROUGH MANUFACTURER PAINT CONTRACTOR SHALL FIELD PAINT.
C. GLAZING
   1. EXTERIOR - CLEAR MONOLITHIC GLASS AT LEAST 1/2" CLEAR INSULATED. OR AS REQUIRED BY DRAWINGS, AND COMPLY WITH CRITERIA OF LOCAL CODE AND AUTHORITIES HAVING JURISDICTION

PART 2 - PREPARATION / EXECUTION

A. VERIFY DIMENSIONS, TOLERANCES AND ATTACHMENTS AND SHIMS TO PERMIT SUFFICIENT ADJUSTMENTS TO ACCOMMODATE IRREGULARITIES.
B. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.
C. ALL JOINTS BETWEEN FRAMING AND BUILDING STRUCTURE SHALL BE SEALED TO PROVIDE WATERTIGHT INSTALLATION.
D. INSTALL SEALANT AND BACKING MATERIALS AT PERIMETER OF FRAME.

08710 DOOR HARDWARE

PART 1 - GENERAL

A. FURNISH AND INSTALL FINISH HARDWARE FOR INTERIOR AND EXTERIOR DOORS, ROLLING GRILLES AND WINDOWS.
B. SEE DOOR SCHEDULE FOR SPECIFIC ITEMS, MANUFACTURERS AND MODEL NUMBERS.
C. FOLLOW DHI (DOOR AND HARDWARE INSTITUTE) STANDARDS AND GUIDELINES AND AWI (AMERICAN WOODWORKING INSTITUTE) STANDARDS FOR HARDWARE INSTALLED ON WOOD DOORS.
D. FIRE RATED HARDWARE SHALL FOLLOW GUIDELINES AS ESTABLISHED BY:
   1. NFPA 80 - FIRE DOORS AND WINDOWS.
   2. NFPA 101 - LIFE SAFETY CODE.
   3. NFPA 252 - FIRE TESTS OF DOOR ASSEMBLIES.
   4. UL 10B - SAFETY FIRE TESTS OF DOOR ASSEMBLIES.
   5. UL 305 - SAFETY PANIC HARDWARE.
E. FURNISH OWNER WITH MAINTENANCE DATA, MAINTENANCE PROCEDURES, MANUFACTURERS WARRANTIES AND SPECIAL TOOLS.
F. FINISHES: AS NOTED ON PLANS AND SCHEDULES.
G. KEYING
   1. GENERAL CONTRACTOR TO COORDINATE KEYING AND MASTER KEYING WITH CONSTRUCTION MANAGER.
   2. GENERAL CONTRACTOR TO INSTALL CONSTRUCTION CORES DURING CONSTRUCTION AND REPLACE WITH PERMANENT AT END OF JOB PRIOR TO TURN-OVER.
H. SEE SECTION ON ALUMINUM ENTRANCES FOR HARDWARE SPECIFIC TO THOSE DOORS

PART 2 - PREPARATION / EXECUTION

A. COORDINATE THE WORK WITH OTHER DIRECTLY AFFECTED SECTIONS INVOLVING MANUFACTURE OR FABRICATION OF INTERNAL REINFORCEMENT FOR DOOR HARDWARE AND RECESSED ITEMS.
B. VERIFY THAT DOORS AND FRAMES ARE READY TO RECEIVE WORK AND DIMENSIONS ARE AS INDICATED.
C. INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
D. USE TEMPLATES PROVIDED BY HARDWARE ITEM MANUFACTURER.
E. ADJUST HARDWARE FOR SMOOTH OPERATION.

08800 GLAZING

PART 1 - GENERAL

A. FURNISH AND INSTALL A COMPLETE SYSTEM OF GLASS, GLAZING CHANNELS, SEALANT, SETTING BLOCKS AND ACCESSORIES AS SHOWN AND DETAILED ON THE DRAWINGS AND RESPONSIBILITY SCHEDULE.
B. SEE PLANS AND ELEVATIONS FOR SIZE AND NUMBER OF PANES.
C. FOLLOW RECOMMENDATIONS FOR INSTALLATION CONTAINED IN THE FGMA (FLOAT GLASS MANUFACTURERS ASSOCIATION) GLAZING AND SEALANT MANUALS AS WELL AS SIGMA (SEALED INSULATED GLASS MANUFACTURE. ASSOCIATION) FOR INSULATED GLASS.
D. IT IS THE GLAZING CONTRACTORS SOLE RESPONSIBILITY TO VERIFY THAT THE GLASS IS SIZED TO WITHSTAND DEAD LOADS, POSITIVE AND NEGATIVE LIVE LOADS, ACTING NORMAL TO PLANE OF GLASS AS CALCULATED IN ACCORDANCE WITH LOCAL AND STATE CODES.
E. MATERIAL FOR INTERIOR STOREFRONT GLASS:
   1. CLEAR GLASS - ASTM C1048, FT-FULLY TEMP., QUALITY-q3 GLAZING SELECT.
   2. THICKNESS AS SHOWN ON PLAN.
   3. EACH INDIVIDUAL PANE TO RECEIVE TEMPERED STAMP INDICATING SUCH.
F. MATERIAL FOR EXTERIOR STOREFRONT IN METAL GLAZING SYSTEM.
   1. INSULATED GLASS UNITS - LOW E - TYPE SG-B - ASTM E774 AND E773 DOUBLE PANE WITH GLASS ELASTOMER EDGE SEAL; OUTER PANE OF CLEAR GLASS, INNER PANE OF LOW E CLEAR GLASS ON CLEAR COLOR GLASS.
      a. PROVIDE TEMPERED GLASS UNITS WHERE INDICATED ON PLAN OR AS REQUIRED BY JURISDICTIONAL CODES.

PART 2 - PREPARATION / EXECUTION

A. VERIFY THAT OPENINGS FOR GLAZING ARE CORRECTLY SIZED AND WITHIN TOLERANCE.
B. VERIFY THAT SURFACES OF GLAZING CHANNELS OR RECESSES ARE CLEAN, FREE OF OBSTRUCTIONS THAT MAY IMPEDE MOISTURE MOVEMENT, WEEPS ARE CLEAR, AND READY TO RECEIVE GLAZING.
C. CUT GLASS PANES TO ACCURATE SIZES ALLOWING FOR EDGE CLEARANCES AND TOLERANCES.
D. INSTALL SEALANTS RECOMMENDED BY MANUFACTURER WHICH ARE COMPATIBLE WITH MATERIALS THEY WILL BE IN CONTACT WITH.
E. REMOVE GLAZING MATERIALS FROM FINISH SURFACES.
F. REMOVE LABELS AFTER WORK IS COMPLETE. CLEAN GLASS AND ADJACENT SURFACES.

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LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: SPECIFICATIONS 2 OF 3

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.: G004

SPECIFICATIONS (3 OF 3)

08835 MIRROR
PART 1 - GENERAL
A. FURNISH AND INSTALL CUSTOM FITTED MIRRORS INCLUDING MASTIC AND ATTACHMENT CLIPS AS SIZED AND DETAILED IN DRAWINGS AND RESPONSIBILITY SCHEDULE. REFER TO TOILET ROOM ACCESSORIES FOR TENANT-PROVIDED MIRRORS IN LAVATORY. VERIFY WITH TENANT'S PROJECT MANAGER.
B. CONSULT NAMM (NATIONAL ASSOCIATION OF MIRROR MANUFACTURING) FOR TIPS FOR CARE AND HANDLING OF MIRRORS.
C. PRODUCT:
   1. CLEAR FLOAT TYPE WITH COPPER/SILVER COATING. UNLESS NOTED OTHERWISE, ALL EDGES SHALL BE POLISHED.
D. MIRROR ADHESIVE: CHEMICALLY COMPATIBLE WITH MIRROR COATING AND WALL SUBSTRATE.

PART 2 - PREPARATION / EXECUTION
A. VERIFY AREAS RECEIVING MIRRORS ARE WITHIN TOLERANCES AND ARE READY TO RECEIVE MATERIAL.
B. PLACE PLUMB AND LEVEL WITHOUT VISIBLE DISTORTION.
C. STORE, PROTECT, AND INSTALL MIRRORS IN ACCORDANCE WITH NAMM.

D. SET MIRRORS WITH EDGE CLEARANCE FREE OF SURROUNDING CONSTRUCTION INCLUDING COUNTERTOPS OR BACKSPLASHES.
E. REMOVE LABELS AFTER WORK IS COMPLETE.
F. CLEAN MIRRORS AND ADJACENT SURFACES.

END OF DIVISION

09120 CEILING SUSPENSION SYSTEMS
PART 1 - GENERAL
A. PROVIDE ACOUSTICAL PANEL CEILINGS WITH EXPOSED SUSPENSION GRID, AS SHOWN ON THE DRAWINGS.
B. SUSPENSION SYSTEM AND ACOUSTIC PANELS AS LISTED ON REFLECTED CEILING PLAN SHEET AND RESPONSIBILITY SCHEDULE.
C. REFER TO DRAWINGS FOR LOCATION OF SPECIFIED MATERIALS AND FINISHES. WHERE REQUIRED BY CODES, CEILING ASSEMBLIES ARE TO CONFORM WITH UNDERWRITERS LABORATORIES DESIGN FOR ONE HOUR FIRE RATED ASSEMBLIES.

PART 2 - PREPARATION / EXECUTION
A. AT TIME OF COMPLETION, DELIVER TWO PACKAGES OF ACOUSTICAL PANELS TO THE TENANT OF EACH TYPE OF MATERIAL USED, FOR FUTURE REPLACEMENT USE.
B. COMPLY WITH ASTM C 635 FOR INTERMEDIATE - DUTY CLASS SYSTEM. SIZE ATTACHMENT DEVICES FOR FIVE (5) TIMES DESIGN LOAD. HANGER WIRE SHALL BE GALVANIZED CARBON STEEL, ASTM A641, SOFT TEMPER, PRE-STRETCHED, 12 GA MINIMUM.
C. COMPLY WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND WITH GOVERNING REGULATIONS, FIRE-RESISTANCE RATING REQUIREMENT AND WITH INDUSTRY STANDARDS APPLICABLE TO THE WORK.
D. INSTALL SUSPENSION SYSTEM TO COMPLY WITH ASTM C 636, WITH HANGERS SUPPORTED ONLY FROM BUILDING STRUCTURAL MEMBERS. LOCATE HANGERS NOT LESS THAN 6" FROM EACH END AND SPACE 4'-0" ALONG EACH CARRYING CHANNEL OR DIRECT-HUNG RUNNER. SECURE WIRE HANGERS BY LOOPING AND WIRE TYING, EITHER DIRECTLY TO STRUCTURES OR TO INSERTS, EYE-SCREWS, OR OTHER DEVICES WHICH ARE SECURE AND APPROPRIATE FOR SUBSTRATE.
E. INSTALL EDGE MOLDINGS AT PERIMETER OF ACOUSTICAL CEILING AREA AND AT LOCATIONS WHERE NECESSARY TO CONCEAL EDGES OF ACOUSTICAL UNITS.
F. INSTALL ACOUSTICAL PANELS IN COORDINATION WITH SUSPENSION SYSTEM, WITH EDGES CONCEALED BY SUPPORT OF SUSPENSION ,MEMBERS, SCRIBE AND CUT PANELS TO FIT ACCURATELY AT BORDERS AND PENETRATIONS.
G. INSTALL HOLD-DOWN CLIPS IF REQUIRED BY CODE.
H. GWB CEILINGS AND SOFFITS TO BE GIVEN A FLAT AND SMOOTH FINISH TO ACCEPT PAINT FINISH. REFER TO SECTION 09250 "GYPSUM BOARD SYSTEMS".

09250 GYPSUM BOARD SYSTEMS
A. LEVEL 4 GYPSUM BOARD FINISH SPECIFICATION: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND. AFTER WIPING JOINTS WITH A JOINT KNIFE, LEAVING A THIN LAYER OF COMPOUND OVER ALL JOINTS, ADD TWO COATS OF JOINT COMPOUND OVER ALL FLAT JOINTS. AFTER WIPING INTERIOR ANGLES WITH A JOINT KNIFE, LEAVING A THIN LAYER OF COMPOUND, ADD ONE SEPARATE COAT OF JOINT COMPOUND OVER INTERIOR ANGLES. COVER FASTENER HEADS AND ACCESSORIES WITH THREE LAYERS OF JOINT COMPOUND. MAKE SURE THE SURFACE IS SMOOTH AND FREE OF TOOL MARKS. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINISH PAINT.
B. LEVEL 5 GYPSUM BOARD FINISH SPECIFICATION: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE TAPE EMBEDDED IN JOINT COMPOUND AND TWO SEPARATE COATS OF JOINT COMPOUND APPLIED OVER ALL FLAT JOINTS AND ONE SEPARATE COAT OF JOINT COMPOUND APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE SEPARATE COATS OF JOINT COMPOUND. A THIN SKIM COAT OF JOINT COMPOUND OR A MATERIAL MANUFACTURED ESPECIALLY FOR THIS PURPOSE, SHALL BE APPLIED TO THE ENTIRE SURFACE. THE SURFACE SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES. NOTE: IT IS RECOMMENDED THAT THE PREPARED SURFACE BE COATED WITH A DRYWALL PRIMER PRIOR TO THE APPLICATION OF FINISH PAINT.

PART 1 - GENERAL
A. FURNISH AND INSTALL ALL GYPSUM DRYWALL AND SYSTEMS COMPLETE WITH PARTITION FRAMING, CEILING SUSPENSION SYSTEMS AND RELATED ACCESSORIES, PARTS, MATERIALS, ETC. AS SHOWN ON DRAWINGS AND AS SPECIFIED. INSTALL ALL MATERIALS PER MANUFACTURERS SPECIFICATIONS, RECOMMENDATIONS, AND IN COMPLY WITH ALL LOCAL CODES REQUIREMENTS .
B. GYPSUM DRYWALL: ALL GYPSUM BOARD TO BE 5/8" TYPE "X" AS NOTED ON NEW CONSTRUCTION PLAN. REST ROOMS TO RECEIVE MOISTURE RESISTANT GYPSUM BOARD.
C. FASTENERS: DRYWALL SCREWS OF PROPER SIZE AND TYPE PER MANUFACTURERS RECOMMENDATIONS.
D. PROVIDE MATERIALS, JOINT COMPOUNDS, TRIM, EDGES, BEADS, ETC. FROM A SINGLE SOURCE SUPPLIER. ALL TRIM SHALL CONSIST OF A TAPERED, GROOVED, AND PREPUNCHED FIN FOR SCREW ATTACHMENT AND TO ACCEPT BONDING AGENT. ALL BUTT JOINTS ARE TO BE NEAT WITH TIGHT JOINTS, AND ALL CORNERS ARE TO BE MITERED. ALL EDGES, BEADS AND TRIM TO BE PRE-FINISH ALUMINUM.
E. JOINT TREATMENT: U.S. GYPSUM OR GOLD BOND SYSTEM OF COMPOUNDS AND PERFORATED TAPE.
   1. ERECT GWB IN A SINGLE LAYER WITH VERTICAL BUTT JOINT AND WITH ENDS AND EDGES OCCURRING OVER FIRM BEARING.
   2. WALLS, CEILINGS AND SOFFITS, AND ALL TRANSITIONS IN SAME, SHALL BE GIVEN A SMOOTH FINISH.
   3. CORNER BEADS SHALL BE APPLIED TO ALL EXTERNAL ANGLES IN STRICT ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS. INSTALL CASING BEADS AT ALL EDGES OF DRYWALL WORK EXCEPT WHERE TERMINATION IS COVERED BY OTHER FINISH. CASING BEADS SHALL BE MITERED AT CORNERS AND INSTALLED NEATLY, FINISHED WITH COMPOUND. NO "CRIMP ON" METHOD TO ATTACHED CORNER BEADS SHALL BE USED.
   4. JOINTS BETWEEN BOARDS SHALL BE REINFORCED WITH TAPE EXCEPT WHERE CONTROL JOINTS ARE REQUIRED. TAPE FIELD JOINTS, INTERIOR CORNER JOINTS AND WALL TO CEILING JOINTS. FILL JOINTS WITH JOINT FILLING COMPOUND AND EMBED TAPE THEREIN. COVER TAPE WITH BEDDING COMPOUND AND TAPER TO FEATHER EDGES. FILL SCREW HEAD DEPRESSIONS WITH JOINT FILLING COMPOUND AND FEATHER THE EDGES. ALLOW TO DRY.
   1. COVER TAPED AND FILLED JOINTS AND FILLED SCREW HEAD DEPRESSIONS WITH TOPPING COMPOUND APPLIED IN THREE COATS. PERMITTING THE PREVIOUS COAT TO DRY PRIOR TO INSTALLING THE SUBSEQUENT COAT.
   2. SAND JOINT AND SCREW HEAD AREAS LIGHTLY BETWEEN COATS AND AFTER THE FINAL COAT SO THAT A SMOOTH LEVEL SURFACE IS PRODUCED WITH THE PAPER SURFACE OF THE WALLBOARD FREE OF SCUFFING.
F. PATCH AND/OR REPAIR EXISTING DRYWALL TO REMAIN TO LIKE NEW CONDITION. LEVEL ANY UNEVEN OR ROUGH SPOTS AND FINISH SMOOTH. BULGES AND VISUAL DEPRESSIONS ARE NOT ACCEPTABLE.
G. INSTALL CEMENTITIOUS BACKER BOARD AT ALL AREAS TO RECEIVE TILE OR MARBLE, OR AS SHOWN ON DRAWINGS.
H. ACCESS PANELS:
   1. G.C. SHALL PROVIDE AND INSTALL ACCESS PANELS AS REQUIRED BY LANDLORD AND SITE CONDITIONS (COORDINATE SIZE REQUIREMENTS, NUMBER OF PANELS REQUIRED AND LOCATIONS WITH LANDLORD AND ALL MECHANICAL TRADES).
   2. ACCESS PANELS SHALL BE FLUSH TYPE (NO EXPOSED FLANGES) STYLE AS MANUFACTURED BY: INTEX FORMS INC. - GLASS FIBER (GFRG) FLUSH ACCESS PANEL.

PHONE NUMBER: 916-388-9933, EMAIL ADDRESS; SALES@INTERFORMS.COM
(SIZE AS REQUIRED)
   3. PANELS TO BE FACTORY PRIMED (WHITE) READY TO RECEIVE FINAL FINISH PAINT BY G.C.

09300 TILE AND MARBLE
PART 1 - GENERAL
A. MARBLE/CERAMIC/QUARRY TILE: REFER TO FINISH AND RESPONSIBILITY SCHEDULE FOR SIZES, COLORS, AND MANUFACTURERS.
B. INSTALL GROUT AS RECOMMENDED BY THE TILE MANUFACTURER. COLOR OF WALL GROUT TO BE INDICATED ON THE FINISH SCHEDULE.
C. BASE, SADDLES, AND ACCESSORIES FROM MANUFACTURE (S) IN THE STYLES, COLORS, SIZES, AND THICKNESS SPECIFIED ON THE DRAWINGS.

PART 2 - PREPARATION / EXECUTION
REFER TO SECTION 03732 "CONCRETE REPAIR / PREPARATION". AND TO SECTION 07200 "INSULATION AND WATERPROOFING"

A. BEFORE SETTING ANY TILE, THE CONTRACTOR SHALL ASSURE HIMSELF THAT NO TILES WILL HAVE TO BE REMOVED AFTER INSTALLATION TO ACCOMMODATE THE WORK OF OTHER TRADES. ALL CUTTING, FITTING, DRILLING AND GRINDING OF THE WORK, WHERE NECESSARY IN RELATION TO THE WORK OF OTHER TRADES, SHALL BE PERFORMED SO THAT THE WORK WILL BE NEATLY AND ACCURATELY DONE AND CUT EDGES SHALL BE UNIFORM.
B. CONFORM TO REQUIREMENTS UNDER AMERICAN NATIONAL STANDARDS INSTITUTE ANSI A-137.1 FOR CERAMIC TILE MATERIAL AND ANSI A-108 FOR INSTALLATION.
C. INSTALL PER LANDLORD'S SPECIFICATIONS, WHERE APPLICABLE.
D. LAY OUT TILE PATTERN WITH THE STARTING POINT AS INDICATED ON "FINISH PLAN AND SCHEDULE" PAGE, WITH EVEN JOINT ON ALL FLOOR AND WALL SURFACES.
E. CUT AND DRILL TILE AS REQUIRED WITHOUT MARRING TILE, GRIND AND FIT AROUND FIXTURES, ETC.. LEAVE COMPLETED WORK FREE FROM CRACKED, BROKEN, OR DAMAGED TILE.
F. ALL TRANSITIONS BETWEEN NEW AND EXISTING OR UNLIKE FINISHES SHALL BE FLUSH AND SMOOTH. NO REDUCER STRIPS PERMITTED IN STOREFRONT AREA.
H. PROTECT NEWLY TILED AREAS WITH GROUT AS REQUIRED FOR SEVEN DAYS, PER MANUFACTURER.
I. INSTALL TILES USING THINSET METHOD WITH 1/8" JOINTS AT WALLS AND FLOORS.
J. SEAL/WAX ALL TILE PER MANUFACTURER'S SPECIFICATIONS.

09650 VINYL RESILIENT TILE FLOORING
PART 1 - GENERAL
A. G.C. TO INSTALL FLOORING AS SHOWN AND SPECIFIED ON THE DRAWINGS.
B. SEE FINISH SCHEDULE FOR SPECIFIC COLORS AND MANUFACTURER.

PART 2 - PREPARATION / EXECUTION
REFER TO SECTION 03732 "CONCRETE REPAIR / PREPARATION". AND TO SECTION 07200 "INSULATION AND WATERPROOFING"

A. PREP SLAB AS REQUIRED TO RECEIVE NEW VINYL TILE.
B. FILL ALL CRACKS, JOINTS, ETC. IN SUB-FLOOR WITH CRACK FILLER APPROVED BY FLOORING MANUFACTURER. INSTALL ALL MATERIALS WITH WATERPROOF TYPE ADHESIVES AS RECOMMENDED BY FLOORING MANUFACTURER FOR MATERIALS AND SURFACES INVOLVED.
C. SLOPE FLOOR TILE TO DRAINS. SUBSTRATE MUST ALSO BE SLOPED TO DRAIN.
D. ALL VINYL FLOORING SHALL BE SCRUBBED AND SEALED BY G.C. PRIOR TO TURNOVER.

09652 WOOD FLOORING
PART 1 - GENERAL
A. FINISHED WOOD FLOOR AS SPECIFIED IN FINISH AND RESPONSIBILITY SCHEDULES. INSTALLED PER MANUFACTURER'S PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
B. MATERIALS SHALL BE LISTED WITH UNDERWRITERS LABORATORIES AS TO FIRE AND SLIP RESISTANCE.
C. ARCHITECTURAL TRIM, i.e. REDUCER STRIPS, BANDS, PICKETS, ETC., SHALL BE OF SAME MANUFACTURER AND FINISH AS WOOD FLOOR.

PART 2 - PREPARATION / EXECUTION
A. GENERAL CONTRACTOR TO RECEIVE AND STORE MATERIAL. G.C. MUST OPEN BOXES A MINIMUM OF SEVEN DAYS IN ADVANCE OF INSTALLATION TO ACCLIMATE PRODUCT TO TEMPERATURE AND HUMIDITY OF AREA TO RECEIVE INSTALLATION.

REFER TO SECTION 03732 "CONCRETE REPAIR / PREPARATION". AND TO SECTION 07200
"INSULATION AND WATERPROOFING"
B. GENERAL CONTRACTOR TO BROOM CLEAN FLOORING AS IT IS INSTALLED. PROTECT FLOORING IMMEDIATELY WITH KRAFT PAPER AND INSTALL MASONITE, ORIENTED STRAND BOARD OR OTHER PROTECTIVE FLOOR PANELS OVER ENTIRE WOOD FLOOR. TAPE ALL JOINT IN FLOOR PROTECTION.
C. NO FLOORING TO BE EXPOSED UNTIL LAST DAY OF FIXTURING AND PROP INSTALLATION.
D. FLOOR CLEAN-UP: FOLLOWING COMPLETION OF WORK BY OTHER TRADES, THE PROTECTIVE COVERING PLACED AFTER INSTALLATION SHOULD BE REMOVED; FOLLOWED BY SWEEPING, VACUUMING AND/OR DRY MOPPING TO REMOVE ALL LOOSE DEBRIS.

09680 CARPET
PART 1 - GENERAL
A. CONDITION CARPET AND ADHESIVES FOR AT LEAST 48 HOURS AT A MINIMUM TEMPERATURE OF 65 DEGREES FAHRENHEIT. THE FLOOR SHOULD ALSO BE CONDITIONED AT A TEMPERATURE ABOVE 65 DEGREES F FOR AT LEAST 24 HOURS PRIOR TO INSTALLATION. THE FLOOR MUST BE SWEPT FREE OF DUST AND DEBRIS.
B. DO NOT INSTALL CARPET OVER CONCRETE SLABS UNTIL SLABS HAVE CURED AND SUFFICIENTLY DRY TO BOND WITH ADHESIVE AND CONCRETE HAVE PH RANGE RECOMMENDED BY THE MANUFACTURER.
C. UNLESS OTHERWISE INDICATED REMOVE, OLD VINYL TILE OR LINOLEUM. CLEAR OFF ALL THE DEBRIS, DIRT OR ANYTHING ELSE THAT COULD INTERFERE WITH THE BOND OF ADHESIVE. THE SUBFLOOR UNDERNEATH THE VINYL SHOULD BE IN GOOD CONDITION AND LEVEL AS WELL BEFORE TO INSTALL THE NEW FLOOR.
D. REMOVE ANY FINISHES, WAXES, PAINT, ETC. FROM WOOD FLOORS. THE SURFACE MUST BE LEVEL AND CRACKS MAY REQUIRE A FLASHING COMPOUND. PLYWOOD OR PARTICLE BOARD MAY BE NECESSARY TO OFFSET UNEVEN FLOORS, BUT MUST BE PRIMED PRIOR TO INSTALLATION.
E. CUT-BACK ADHESIVE MUST BE FLASHED OVER. USING A NOTCHED TROWEL, PATCH AND LET CURE. SMOOTH OVER WITH A SECOND COAT OF PATCH, USING THE FLAT SIDE OF THE TROWEL TO FILL IN THE RIDGES. ALLOW THE NEWLY FLASHED FLOOR TO CURE.
F. GENERAL CONTRACTOR TO VERIFY DESIRED QUANTITY NEEDED, AND ADVISE ESSILOR LUXOTTICA PM AT EARLIEST OPPORTUNITY (WITHIN 1 WEEK AFTER BID AWARDING).
G. INSTALL PER FLOOR AND WALL FINISH PLAN AND PROVIDE TENANT WITH SEAM LAYOUT PRIOR TO CUTTING / INSTALLATION.
H. FILL ALL CRACKS, JOINTS, ETC. IN SUB-FLOOR WITH CRACK FILLER APPROVED BY CARPET MANUFACTURER.
I. PROVIDE DIRECT GLUEDOWN INSTALLATION USING MATERIAL AND METHODS RECOMMENDED BY CARPET MANUFACTURER. SEAL ALL SEAMS WITH SEAM ADHESIVE.

09700 LAMINATED WOOD FLOORING
PART 1 - GENERAL
A. WOOD LAMINATE FLOORING: REFER TO FINISH AND RESPONSIBILITY SCHEDULE FOR SIZES, COLORS, AND MANUFACTURERS.
B. PREP FLOOR AS RECOMMENDED BY THE MANUFACTURER.
C. INSTALL COMPLETE PER MANUFACTURER'S SPECIFICATIONS, INCLUDING ALL TRANSITION STRIPS AND EXPANSION JOINTS AS REQUIRED FOR PROPER INSTALLATION.

PART 2 - PREPARATION / EXECUTION
REFER TO SECTION 03732 "CONCRETE REPAIR / PREPARATION". AND TO SECTION 07200 "INSULATION AND WATERPROOFING"

A. GENERAL CONTRACTOR TO RECEIVE AND STORE MATERIAL. G.C. MUST OPEN BOXES A MINIMUM OF 48 HOURS IN ADVANCE OF INSTALLATION TO ACCLIMATE PRODUCT TO TEMPERATURE AND HUMIDITY OF AREA TO RECEIVE INSTALLATION.
B. PREPARE SUBFLOOR OR EXISTING FLOOR SYSTEM AS RECOMMENDED BY MANUFACTURER.
C. INSTALL POLYETHYLENE FILM ON CONCRETE SUBFLOOR.
D. INSTALL "WHISPERWALK".
E. PROVIDE ADEQUATE EXPANSION SPACE AT PERIMETER, COLUMNS, AND AT ALL ALL OTHER OBSTRUCTIONS.
F. INSTALL SPECIFIED BASE OR TRIM AT PERIMETER, COLUMNS, AND AT ALL OTHER OBSTRUCTIONS.
G. GENERAL CONTRACTOR TO BROOM CLEAN FLOORING AS IT IS INSTALLED. PROTECT FLOORING IMMEDIATELY WITH BROWN KRAFT PAPER AND INSTALL MASONITE, ORIENTED STRAND BOARD OR OTHER PROTECTIVE FLOOR PANELS OVER ENTIRE WOOD FLOOR.
H. NO FLOORING TO BE EXPOSED UNTIL LAST DAY OF FIXTURING AND MERCHANDISE INSTALLATION.
I. FLOOR CLEANUP: FOLLOWING COMPLETION OF WORK BY OTHER TRADES, THE PROTECTIVE COVERING PLACED AFTER INSTALLATION SHOULD BE REMOVED; FOLLOWED BY SWEEPING, VACUUMING AND/OR DRY MOPPING TO REMOVE ALL LOOSE DEBRIS.

09910 PAINTING AND FINISHING
PART 1 - GENERAL
A. THE INTENT IS TO PROVIDE A SATISFACTORY FINISH TO ALL PARTS OF THIS PROJECT. FINISH APPEARANCE MUST BE UNIFORM, SMOOTH, AND FREE OF ANY RUNS, SAGS, AND DEFECTIVE BRUSHING OR SPRAYING. COVER ALL SURFACES THOROUGHLY IF THE NUMBER OF COATS RECOMMENDED BY MANUFACTURER DOES NOT ACCOMPLISH THE INTENT, THEN APPLY ADDITIONAL COATS UNTIL COVERAGE IS SATISFACTORY. SEE FINISH SCHEDULE FOR PAINT COLORS, MANUFACTURER, ETC.
B. USE ONLY THE PAINT AND RELATED MATERIALS SPECIFIED BY THE MANUFACTURER. SEE FINISH SCHEDULE FOR SPECIFIC COLORS. ALTERNATES ARE NOT PERMITTED.
PART 2 - PREPARATION / EXECUTION
A. CLEAN ALL SURFACES TO BE PAINTED FREE OF LOOSE DIRT AND DUST BEFORE WORK IS STARTED. WASH ALL METAL SURFACES WITH MINERAL SPIRITS BEFORE APPLYING FINISHES. WHERE RUST OR SCALE IS PRESENT, WIRE BRUSH OR SAND CLEAN BEFORE APPLYING FINISH.
B. PAINTED DRYWALL TO RECEIVE ONE COAT LATEX PRIMER AND TWO COATS OF SPECIFIED TINT PRIMER TO APPROXIMATE SHADE OF THE FINAL COAT. PRIMER AND FIRST COAT TO HAPPEN BEFORE FIXTURE INSTALLATION, SECOND COAT TO HAPPEN AFTER FIXTURE INSTALLATION. TOUCHUP ALL SUCTION SPOTS OR HOT SPOTS AFTER APPLICATION OF FIRST COAT AND BEFORE APPLYING SECOND COAT, TO PRODUCE AND EVEN RESULT IN THE FINISH COAT. DRY ALL COATS THOROUGHLY BEFORE APPLYING SUCCEEDING COATS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR RECOAT TIME. SEAL ALL DRYWALL SURFACES BEHIND MIRRORS.
C. PUTTY ALL NAIL HOLES, COUNTERSUNK SCREWS, BOLTS, CRACKS, ETC. BEFORE APPLYING FINISH.
D. SAND ALL WOOD SURFACES SMOOTH AND EVEN BEFORE APPLYING FINISH.
E. BEFORE STARTING FINISH WORK, REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS, OR PROVIDE AMPLE PROTECTION FOR SUCH ITEMS.
F. PAINT ALL EXPOSED PIPING, ACCESS DOORS, VENTS, FIRE EXTINGUISHER CABINETS, EQUIPMENT MOUNTING BOARDS, ETC. TO MATCH ADJACENT WORK UNLESS OTHERWISE NOTED OR DIRECTED.
G. SAND ENAMELED FINISHES APPLIED TO WOOD OR METAL BETWEEN COATS WITH FINE SANDPAPER TO PRODUCE EVEN SMOOTH FINISH.
H. MAKE FINISH WORK UNIFORM, SMOOTH, FREE OF RUNS, SAGS AND DEFECTIVE BRUSHING OR SPRAYING. MAKE EDGES ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN WITHOUT OVERLAPPING.
I. SEAL TOPS, BOTTOMS AND EDGES OF ALL DOORS.
J. CONTRACTOR TO LEAVE ONE QUART EACH COLOR OF PAINT FOR FUTURE TOUCH-UP.
K. PRIOR TO CONTRACTOR LEAVING SITE AND AFTER ALL FIXTURES ARE INSTALLED AND STORE IS CLEANED, CONTRACTOR TO WALK SITE AND TOUCH-UP PAINT DAMAGED DURING FINAL DAYS OF PROJECT.
L. GENERAL CONTRACTOR TO HAVE ONE (1) PAINTER PRESENT AT THE TIME OF THE PUNCH LIST TO PERFORM IMMEDIATE TOUCH-UPS/REPAIRS AS NEEDED

END OF DIVISION

DIVISION 10000 - SPECIALTIES
10520 FIRE PROTECTION
PART 1 - GENERAL
A. PROVIDE MULTI-PURPOSE CHEMICAL FIRE EXTINGUISHERS CAPABLE OF EXTINGUISHING CLASS A, B, AND C FIRES, IN QUANTITIES AND LOCATIONS REQUIRED BY LOCAL FIRE MARSHALL. (COORDINATE IN FIELD.) MANUFACTURER: J.L. INDUSTRIES; COSMIC SERIES OR EQUAL.
B. ALL EXTINGUISHERS ARE TO BE FURNISHED WITH CURRENT TAGS, INDICATING DATE(S) OF INSTALLATION.

PART 2 - PREPARATION / EXECUTION
A. INSTALL MOUNTING BRACKETS AT HEIGHTS TO COMPLY WITH APPLICABLE REGULATIONS OF GOVERNING AUTHORITIES.
B. SECURE MOUNTING BRACKETS TO STRUCTURE, SQUARE AND PLUMB, TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS.

10800 TOILET ROOM ACCESSORIES
PART 1 - GENERAL
A. GENERAL CONTRACTOR TO SUPPLY A.D.A. APPROVED TOILET ACCESSORIES AND GRAB BARS INCLUDING ALL SET SCREWS AND ANCHORS REQUIRED FOR COMPLETE INSTALLATION.

PART 2 - PREPARATION / EXECUTION
A. G.C. SHALL INSTALL TOILET ACCESSORY UNITS ACCORDING TO MANUFACTURER'S INSTRUCTIONS, USING FASTENERS AND IN WALL BLOCKING AS RECOMMENDED BY UNIT MANUFACTURER. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED, IN A TAMPERPROOF MANNER WITH SPECIAL HANGERS, TOGGLE BOLTS, OR SCREWS.

END OF DIVISION

DIVISION 11000 - EQUIPMENT
11001 EQUIPMENT
PART 1 - GENERAL
A. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT WORK AND PLACEMENT WITH THE WORK OF ALL OTHER TRADES AND MAKE ADJUSTMENTS AS REQUIRED TO ACCOMMODATE LOCATIONS OF EQUIPMENT.
B. ALL EQUIPMENT WORK SHALL COMPLY WITH ALL GOVERNING BUILDING CODES AND LOCAL
C. EQUIPMENT SHALL BE FURNISHED, UNLOADED, UNPACKED OR UNCRATED AND PLACED ACCORDING TO THE CONSTRUCTION DOCUMENTS.

PART 2 - PREPARATION / EXECUTION
A. GENERAL CONTRACTOR'S INSTALLATION OF TENANT SUPPLIED EQUIPMENT IS TO BE INCLUDED IN GENERAL BID.
B. GENERAL CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY OF ANYDAMAGE TO THE EQUIPMENT PRIOR TO INSTALLATION.
C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL HOOKUP OF ALL EQUIPMENT, INCLUDING ALL MECHANICAL, PLUMBING AND ELECTRICAL WORK.
D. ALL EQUIPMENT MANUALS, INSTRUCTION BOOKLETS AND WARRANTY INFORMATION SHALL BE NEATLY BOUND AND TURNED OVER TO THE CONSTRUCTION MANAGER PRIOR TO THE TURNOVER.

11110 MISCELLANEOUS
PART 1 - GENERAL
A. GENERAL CONTRACTOR TO INSTALL FULL HEIGHT, WHITE CORNER GUARDS WITH WHITE ADHESIVE, UNLESS OTHERWISE SPECIFIED, WHERE INDICATED ON DRAWINGS.

END OF DIVISION

FOR TRADE SPECIFIC SPECIFICATIONS, SEE RELATED SHEETS PER TRADE

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A Brand of EssilorLuxottica

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CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

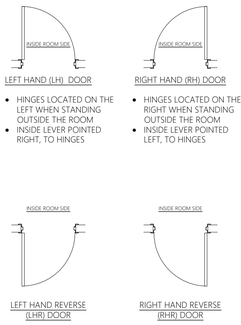
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☐ ADDENDUM

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SPECIFICATIONS 3 OF 3

Date 05/15/2026
Drawn By STAFF
Checked By CM
Sheet No.: G005



- HINGES LOCATED ON THE LEFT WHEN STANDING OUTSIDE THE ROOM
- INSIDE LEVER POINTED RIGHT, TO HINGES

- HINGES LOCATED ON THE RIGHT WHEN STANDING OUTSIDE THE ROOM
- INSIDE LEVER POINTED LEFT, TO HINGES

1 DOOR SCHEDULE

ROOM #	DOOR #	FURNISHED BY	INSTALLED BY	LOCATION	DOORS				HARD WARE	DOOR STOP	CLOSER	JAMB/HEADER				HAND	RATING	REMARKS
					MATERIAL	FINISH	SIZE WIDTH x HEIGHT x THICK	ROUGH OPNING WIDTH x HEIGHT x THICK				TYPE	MAT'L	FINISH	LEVERSET			
101	181	GC	GC	EXTERIOR STOREFRONT ENTRY	ALUM / GLASS	EXISTING	EXISTING PAIR 3'-0" X 8'-0"	EXISTING	EX	EX	EX	EX	ALUMINUM	SEE ELEVATIONS	EXISTING	---	-	
101	100a	GC	GC	SECURITY SHUTTERS	ALUM	ALUM	7'-9 1/2"W x 12'-6"H	- - -	N/A	N/A	-	N/A	N/A	N/A	N/A	---	N/A	QMI AL8 MANUAL GRILLE
101	100b	GC	GC	SECURITY SHUTTERS	ALUM	ALUM	6'-4"W x 12'-6"H	- - -	N/A	N/A	-	N/A	N/A	N/A	N/A	---	N/A	QMI AL8 MANUAL GRILLE
101	100c	GC	GC	SECURITY SHUTTERS	ALUM	ALUM	5'- 0 1/2"W x 12'-6"H	- - -	N/A	N/A	-	N/A	N/A	N/A	N/A	---	N/A	QMI AL8 MANUAL GRILLE
103	184	GC	GC	OD ADMIN	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	LH	N/A	
104	184	GC	GC	LAB	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	RH	N/A	
105	184	GC	GC	PRETEST ROOM 1	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	RH	N/A	
106	184	GC	GC	PRETEST ROOM 2	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	LH	N/A	
108	184	GC	GC	RESTROOM 1	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	PRIVACY	LH	N/A	
109	184	GC	GC	RESTROOM 2	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	PRIVACY	LH	N/A	
110	184	GC	GC	OFFICE	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	LH	N/A	
111	184	GC	GC	BOH	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	PASSAGE	LH	N/A	
111	180	GC	GC	BOH	HOLLOW METAL	SEE REMARK	EXISTING 3'-0" X 7'-0"	EXISTING	B	EX	EX	EX	HOLLW METAL	SEE REMARK	N/A	LH	3 HR EXIST	FINISH TO MATCH ADJACENT WALL
112	184	GC	GC	ELECTRICAL	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	LH	N/A	
113	184	GC	GC	EXAM 2 + M EXAM	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	LH	N/A	
114	184	GC	GC	EXAM 1	S.C. WOOD	P-200	3'-0" x 8'-0" x 2 1/4"	3' 1-3/4" X 8'-1" x 4-7/8"	E	HP	YES	4/G010	ISD EZJAMB	P-200	ENTRY	LH	N/A	

CLOSER

ROCYORK CONCEALED CLOSER (CAN BE USED WITH BOTH ISD AND SRC EZYJAMB FRAMES)

CLOSERS: LC09-G010-REV05

DOOR STOPS

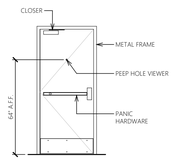
HP: DOORSAVER 3 COMMERCIAL, HINGE PIN STOP, SATIN NICKEL FINISH (INSTALL TOP HINGE ONLY)

DOOR STOPS: LC09-G010-REV05

2 DOOR TYPES

180 ☐ EXISTING (NO CHANGE) ☒ EXISTING (MODIFIED) ☐ NEW

DIRECTION OF SWING MAY VARY. SEE PLAN SHEETS FOR DIRECTION.



181 ☒ EXISTING (NO CHANGE) ☐ EXISTING (MODIFIED) ☐ NEW

G.C. TO ITEMIZE THE FOLLOWING OPTIONS SEPARATELY ON THE BID FORM:

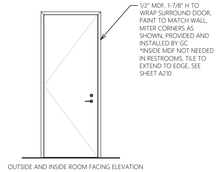
OPTION 1 - EXIST DOOR & FRAME, WITH NEW HARDWARE:
IF UTILIZING EXISTING DOOR, ALL HARDWARE TO BE NEW AS SPECIFIED IN HARDWARE SETS, PROVIDED AND INSTALLED BY G.C.

OPTION 2 - NEW DOOR, FRAME & HARDWARE:
IF EXISTING DOOR CANNOT RECEIVE SPECIFIED HARDWARE, THAN NEW DOOR AND HARDWARE WILL NEED TO BE PROVIDED AND INSTALLED BY G.C.

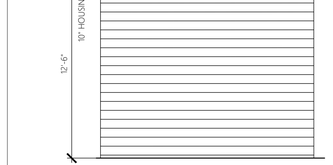


184

DIRECTION OF SWING MAY VARY. SEE PLAN SHEETS FOR DIRECTION.



100a 100b



2-LC09-G010-REV05

3 HARDWARE

HARDWARE SET 'B' (EGRESS / DELIVERY - INTERNAL)

- HINGES - EXISTING TO REMAIN
- THRESHOLD - SEE DETAIL 3/A411 FOR TRANSITION DETAIL.
- PANIC / ALARM SEC. DEVICE - EXISTING TO REMAIN
- INTERIOR LOCK CORES - BEST ACCESS SYSTEMS 9K SERIES CONSTRUCTION CORE PROVIDED AT PUNCH. GENERAL LOCK
- DOOR CLOSERS - EXISTING TO REMAIN.
- DOOR KICK - EXISTING TO REMAIN.

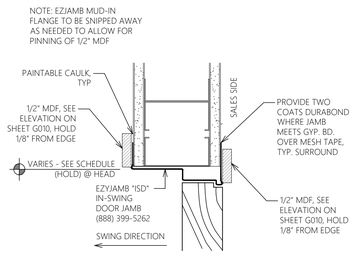
REMARKS:
- SEE PLAN FOR DIRECTION OF SWING.
- STORE ID, SPACE, BUILDING ADDRESS NUMBERS; 2" H, BLACK VINYL @ 5'-6" AFF
- PEEP HOLE SCHLAGE WIDE ANGLE DOOR VIEWER #SC698 B 619 SATIN NICKEL
- DOOR BELL WITH SALES AREA BUZZER LOCATED AT CASHWRAP & ABOVE MANAGER'S DESK
- WEATHER STRIPPING NATIONAL GUARD PRODUCTS INC. #162 DKB AT HEAD & JAMB #15 DKBN OR APPROVED EQ. AT BOTTOM FOR EXTERIOR DOOR CONDITIONS.

HARDWARE SET 'E' (DOOR 184)

- DOOR MATERIAL: - STAIN GRADE SOLID CORE - UNFINISHED ROTARY NATURAL BIRCH
- FRAME MATERIAL: - EZCONCEPT 888-399-5262.
- HINGES: (QTY. 4) ROCKYORK HW-RY4124SS FINISH: STAINLESS STEEL
- DOOR HANDLE: ROCYORK HW-DHL127 FINISH: STAINLESS STEEL
  LEVERSET FUNCTIONS: ENTRY, PRIVACY, PASSAGE (CALLED OUT IN SCHEDULE)
- LOCK: HW-DHL127 F22 MORTISE LOCK- STAINLESS STEEL (NO DOOR PLATES)
- CORE: SFIC (SMALL FORMAT INTERCHANGEABLE CORE) 6 PIN. FINISH TO MATCH LOCK.
- THUMBTURNS: ADA COMPLIANT

REMARKS:
- SEE DOOR SCHEDULE FOR WHEN A CLOSER IS REQUIRED, SEE CLOSER BOX FOR SPEC
- SEE DOOR SCHEDULE FOR APPLICABLE DOOR STOP, SEE DOOR STOP BOX FOR SPEC

3-LC09-G010-REV05



'ISD' INSWING EZJAMB 184 HEADER/JAMB DETAIL

4 SCALE: 3" = 1'-0"

1-LC09-G011-REV06

COMPLIANCE NOTES FOR DOORS

1. DOORS: GENERAL SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE & CURRENT EDITION OF THE LIFE SAFETY CODE.
2. REGARDLESS OF THE OCCUPANT LOAD SERVED, EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT, MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS AND SURFACE BOLTS OR ANY OTHER TYPE OF DEVICE THAT MAY BE USED TO CLOSE OR RESTRAIN THE DOOR OTHER THAN BY OPERATION OF THE LOCKING DEVICE SHALL NOT BE USED. WHERE EXIT DOORS ARE USED IN PAIRS AND APPROVED AUTOMATIC FLUSH BOLTS ARE USED THE DOOR LEAF HAVING AND AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOOR KNOB OR SURFACE MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRED MORE THAN ONE OPERATION.
3. DOOR HARDWARE. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRED TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" (1220 MM) ABOVE FINISHES FLOOR.
4. CLEAR WIDTH. DOOR WAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32 IN. (815 MM) WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
5. MANEUVERING CLEARANCES AT DOORS. FLOOR WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.
6. THRESHOLDS AT DOORWAYS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4 IN. (19 MM) IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2 IN. (13MM) FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
7. DOOR CLOSURES. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 IN. (75 MM) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
8. DOOR OPENING FORCES. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
   1. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.
   2. OTHER DOORS.
      a. EXTERIOR HINGED DOORS: (RESERVED).
      b. INTERIOR HINGED DOORS: 5 LBF (22.2N).
      c. SLIDING OR FOLDING DOORS: 5 LBF (22.2N).

   THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.

COMPLIANCE NOTE-LC09-G011-REV02

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
BRUNSWICK SQUARE MALL
755 NJ-18
SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
△		
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△		
△		
△		
△		

Architect of Record

CORTLAND MORGAN ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
PH: (817) 635-5696
FAX: (817) 635-5699

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: DOOR AND HARDWARE SCHEDULE

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.: G010

2 LC10 - ACCESSORY SCHEDULE

CODE	ITEM	DESCRIPTION	ROOM	REMARKS	SUPPLIED	RECEIVED	INSTALLED
LCOD-HOOK	COAT HOOK ROUND WALL-MOUNTED HOOKS	VENDOR: NA ARTICLE #: 3042090; VENDOR PART #: 3524806 FINISH: MATTE STAINLESS STEEL	CONTACT LENS ROOM (4) PRE-TEST & ALCOVE ROOMS (4) EXAM ROOMS (4) LAB (4) SSM OFFICE (4) BOH/BREAK AREA (6) OD ADMIN OFFICE (4) RESTROOM (2)	• WHERE MORE THAN ONE ARE PROVIDED, INSTALL @ 48" A.F.F. (44" IN RESTROOM) & @ 72" A.F.F. • ROUND HOOK ONLY (INSTALL WITHOUT PROVIDED BACKPLATE) • GC TO PROVIDE AND INSTALL IN-WALL BLOCKING	T	GC	GC
LCOD-CLM	COUNTER TOP MOVEABLE MIRROR	VENDOR: DÉCOR WALTHER ARTICLE #: 3042093; VENDOR PART #: SPT-65-0113100-CH FINISH: POLISHED CHROME	CONTACT LENS ROOM; FITTING COUNTERS; EXAM ROOMS	(1) PER CONTACT LENS COUNTER (1) PER FITTING COUNTER (RETAIL) (1) PER EXAM COUNTER	T	GC	GC
LCOD-STD	SQUARE TISSUE DISPENSER	VENDOR: M DESIGN ARTICLE #: 3042091; VENDOR PART #: 5711MDBA-MD FINISH: BRUSHED STEEL	CONTACT LENS ROOM LAB FITTING COUNTERS	(1) PER CONTACT LENS COUNTER (1) IN LAB (1) PER FITTING COUNTER IN RETAIL	T	GC	GC
LCOD-TRASH1	LARGE FREE-STANDING AUTOMATIC TRASH CAN	MANUFACTURER: HOMELABS (AMAZON) SIZE: 13 GALLON FINISH: STAINLESS STEEL	BOH/BREAK AREA MANAGER/OD ADMIN OFFICE RESTROOM	(1) PER BOH/BREAK AREA (1) PER MANAGER/OD ADMIN OFFICE (TYPICALLY 1-2 PER STORE) (1) PER RESTROOM (TYPICALLY 1-2 PER STORE)	T	GC	GC
LCOD-TRASH2	SMALL FREE-STANDING TRASH CAN	MANUFACTURER: TERI (AMAZON) SIZE: 15 LITER FINISH: STAINLESS STEEL	FITTING COUNTERS RECEPTION DESK LAB PRETEST ROOM EXAM ROOM CONTACTS COUNTER	(1) PER FITTING COUNTER (TYPICALLY 3-4 PER STORE) (1) AT RECEPTION DESK (1) IN LAB (1) PER PRETEST ROOM (TYPICALLY 1-3 PER STORE) (1) PER EXAM ROOM (2-4 PER STORE) (1) PER CONTACTS COUNTER (1-2 PER STORE)	T	GC	GC
LCOD-HTD	PAPER HAND TOWEL DISPENSER	VENDOR: PRUDENTIAL ARTICLE #: 3042097; VENDOR PART #: 99065 FINISH: MATTE STAINLESS STEEL	CONTACT LENS ROOM LAB EXAM ROOMS	(1) PER CONTACT LENS SINK (1) IN LAB (1) PER EXAM ROOM SINK	T	GC	GC
LCOD-SD	SOAP DISPENSER	VENDOR: DECOR WALTHER ARTICLE #: 3042087; VENDOR PART #: LEN-DW0521276 FINISH: SATIN STAINLESS STEEL	CONTACT LENS ROOM LAB EXAM ROOMS	(1) PER CONTACT LENS SINK (1) IN LAB (1) PER EXAM ROOM	T	GC	GC
LCOD-MH	24" MOP HOLDER	VENDOR: ABCO ARTICLE #: 3041934; VENDOR PART #: LEN-600MBR24 FINISH: STAINLESS STEEL	LAB	(1) PER MOP SINK	T	GC	GC
LCOD-MWB	GLASS MAGNETIC WHITE BOARD	VENDOR: LENGLASSBOARD: 23.6"H x 35.4"W ARTICLE #: 3042089; VENDOR PART #: 83843 FINISH: GLOSS WHITE	SSM OFFICE BOH/BREAK AREA	(1) PER MANAGER OFFICE / AREA (1) PER BREAK AREA ROOM	T	GC	GC
LCOD-LKR	LOCKERS	VENDOR: PENCO PRODUCTS ARTICLE #: 3043380 VENDOR PART #: 6G379 WELDED GEN2 LOCKER, 6-TIER, SOLID DOOR, SLAM LATCH FINISH: 054 CANVAS DIMENSIONS: 12"W X 18" D	BOH/BREAK AREA	TO INCLUDE LOCKS (2) PER STORE	T	GC	GC
LCOD-FRIG	REFRIGERATOR	VENDOR: ABCO ARTICLE #: 3041467 MODEL: AVANTI 3.3 CU BLACK RM3316B	BOH/BREAK AREA	(1) PER STORE	T	GC	GC
LCOD-MICRO	MICROWAVE	VENDOR: ABCO ARTICLE #: 3041466 VENDOR PART #: LEN-MICROWAVE1	BOH/BREAK AREA	(1) PER STORE	T	GC	GC
LCOD-WD	WATER DISPENSER	VENDOR: ABCO ARTICLE #: 3042092; VENDOR PART #: LEN-A9 FINISH: BLACK/STAINLESS	BOH/BREAK AREA	(1) PER STORE	T	GC	GC

'LCOD' PREFIX IS NOT REFLECTED ON PLAN.
SEE A210 FOR TOILET ROOM ACCESSORIES.

2-LC10-G020-REV04

1 LC10 - FINISH SCHEDULE

	ITEM	MARK	DESCRIPTION	MFG. / CONTACT		MODEL / COLOR	ALT.	REMARKS	SUPPLY	RECEIVED	INSTALLED
APPLIED FINISHES	FIBERGLASS REINFORCED PLASTIC	FRP-2	F.R.P. WALL PANELS (4'-0" X 10'-0" X 1/8")	MARLITE	800-377-1221	PEBBLED, P440N BISCUIT	NONE	ACCESSORIES: INSIDE CORNER #M350, OUTSIDE CORNER #M360, DIVIDERS #M365, EDGING #M370 (AT MOP SINK ONLY)	GC	GC	GC
	PAINT	P-108	PAINT (TAN)	BENJAMIN MOORE	866-708-9180	ULTRA SPEC® HP D.T.M. ACRYLIC ENAMELS COLOR: DELAWARE PUTTY 240	NONE	CEILING ELEMENTS SHEEN: FLAT SEE SPECS FOR PRIMER AND # OF COATS	GC	GC	GC
	PAINT	P-187	PAINT (SALMON); ABOVE 11'-8" A.F.F.	BENJAMIN MOORE	866-708-9180	ULTRA SPEC® 500 INTERIOR LATEX COLOR: CC-360 POTTERS CLAY	NONE	WALL SHEEN: EGG SHELL CEILING SHEEN: FLAT SEE SPECS FOR PRIMER, COATS AND PAINT SEQUENCING	GC	GC	GC
	PAINT	P-200	PAINT (TAN); BELOW 11'-8" A.F.F	BENJAMIN MOORE	866-708-9180	ULTRA SPEC® 500 INTERIOR LATEX COLOR: OC-12 MUSLIN	NONE	WALL SHEEN: SATIN CEILING SHEEN: FLAT TRIM SHEEN: SEMI-GLOSS SEE SPECS FOR PRIMER, COATS AND PAINT SEQUENCING	GC	GC	GC
	WALLCOVERING	WC-190	ACCENT WALLCOVERING	KOROSEAL	CAL RAYMOND (855-753-5474) craymond@koroseal.com	VESCOM, HAUKI - 1069.13 ROLL WIDTH 51"	NONE	VERTICAL PATTERN INSTALLATION	GC	GC	GC
	WALL TILE	PWT-52	PORCELAIN WALL TILE (8MM x 60CM x 120CM, 1/4" x 23 5/8" x 47 1/8")	CERAMIC TECHNICS STONESOURCE	NANCY BURNS (404-661-7111) NBURNS@CERAMICTECHNICS.COM	CERAMICA SANT'AGOSTINO: LONDON GREY 1060 TILE PATTERN: STRAIGHT (STACK BOND)	NONE	GROUT (BY GC): 1/8" JOINT; LATICRETE SPECTRALOCK PRO PREMIUM, 78 STERLING SILVER (REQ'S 7 DAYS OF PROTECTION)	T	GC	GC
BASE	METAL WALL BASE	B-197	1/8" x 1" METAL WALL BASE FINISH: POLISHED STAINLESS STEEL	N/A: GC OBTAINED METAL WALL BASE, SEE REMARKS	BOB GUNTHER (631-249-1226) BOB@POLISHEDMETALS.COM	1/8" x 1" METAL WALL BASE FINISH: POLISHED STAINLESS STEEL	EQUAL	SEE DETAIL: 11/A411 (ALL CUTS IN FIELD MUST BE DONE UTILIZING A HACKSAW W/ HIGH-SPEED STEEL BLADE. TAPE OFF MATERIAL DURING CUT. MITER INSIDE & OUTSIDE CORNERS.)	GC	GC	GC
	WOOD WALL BASE	B-200b	1/2" x 1" MDF	N/A: GC OBTAINED WALL BASE	-	1/2" x 1" MDF FINISH: P-200	NONE	SEE DETAIL: 12/A401b	GC	GC	GC
FLOORING	WALK-OFF MAT	MAT-2	PLAIN; CLOSED FORMAT; 17MM THICK (OR 12MM IS AVAILABLE IF NEEDED	FORBO; NUWAY TUFTIGUARD	800-842-7839	DOUBLE WIPER STRIPS; ALUMINUM SCRAPER BARS; COLOR: CHARCOAL	NONE	INSET TO FLOOR USED AT ENTRY DOORS IN EXTERIOR LOCATIONS.	GC	GC	GC
	CARPET	C-192	CARPET, 5'/32" LEVEL LOOP PILE 12 FT WIDE	SHAWCONTRACT	LARISSA CHADWICK 800-257-7429 contractorders@shawinc.com	TRU COLOURS SC, CUSTOM COLOR SAMPLE# I5868-0	NONE		T	GC	GC
	TILE FLOOR	TF-505	PORCELAIN FLOOR TILE (20CM X 120CM, 7.874" X 47.244")	IRIS CERAMICA GROUP	-	ARIOSTEA, ROVERE BUCKSKIN FINISH: NATURAL, INSTALL PATTERN: HERRINGBONE	NONE	GROUT (BY GC): 1/8" JOINT; LATICRETE SPECTRALOCK PRO PREMIUM, COLOR #27 HEMP (REQ'S 7 DAYS OF PROTECTION)	T	GC	GC
	VINYL FLOOR TILE	VFT-192	VINYL FLOOR TILE (3/16" x 18" x 36")	EF CONTRACT FLOORING	800-451-1250	PLATEAU 5 EFCP5004 ZINC.	NONE	SCRUB AND SEAL VINYL FLOORING SUBSEQUENT TO INSTALLATION. REFER TO MANUFACTURER'S SPECIFICATIONS.	T	GC	GC
CEILING	ACOUSTICAL CEILING	AC-8	ACOUSTICAL CEILING TILE	ARMSTRONG	(800) 442-4212 TO ORDER: accounts.armstrongceilings.com (*SEE ORDERING NOTE BELOW*)	2824MSS (SANDSTONE) - CALLA 24"x24", TEGULAR CEILING TILE, FOR 9/16" SUPRAFINE SUSPENSION (GRID TO MATCH SANDSTONE), 7501SSS (MAIN), XL7540SSS (4' CROSS TEE), XL7520SSS (2' CROSS TEE) AND 7804SSS (WALL MOLDING 9/16" FLANGE)	NONE	CLASS "A", REFERENCE "LUXOTTICA" AS ACCOUNT NAME	GC	GC	GC
	ORDERING NOTE GC MUST ORDER ARMSTRONG ACOUSTICAL CEILING GRID/TILE THROUGH THE NATIONAL ACCOUNT PORTAL (accounts.armstrongceilings.com) FOR ANY ISSUES CONTACT LISA CAVATAIO AT lycavataio@armstrongceilings.com			FOR NEW CUSTOMERS, GO TO accounts.armstrongceilings.com/pages/register TO CREATE AN ACCOUNT. WHEN REGISTERING, INCLUDE THE ACCOUNT NAME 'LUXOTTICA' WITHIN THE NOTES SECTION. IT WILL TAKE 24 HOURS FOR THE NEW REGISTRED ACCOUNT TO BE APPROVED.		AN EMAIL WILL BE SENT ONCE IT IS APPROVED AND CAN LOG IN TO ORDER. WHEN LOGGING IN, THE EMAIL WILL NEED TO BE ENTERED TO RECEIVE A 6-DIGIT CODE. THIS CODE IS NECESSARY IN THE LOG IN PROCESS. ONCE LOGGED IN, THE ITEMS WILL BE VISIBLE WITH LUXOTTICA'S DISCOUNTED PRICES.			
TRANSITION	TRANSITION STRIP	TS-6	TRANSITION STRIP (WALL TILE TOP EDGE)	SCHLUTER	888-472-4588	SCHLUTER®-SCHIENE, FINISHING AND EDGE-PROTECTION PROFILE WITH MINIMUM REVEAL. STAINLESS STEEL.	EQUAL		GC	GC	GC
	TRANSITION STRIP	TS-7	TRANSITION STRIP (WALL TILE OUTSIDE CORNER)	SCHLUTER	888-472-4588	SCHLUTER®-FINEC, FINISHING AND EDGE-PROTECTION PROFILE WITH A MINIMALIST DESIGN. STAINLESS STEEL	EQUAL		GC	GC	GC
	TRANSITION STRIP	TS-9	TRANSITION STRIP (HARD TILE TO VINYL)	SCHLUTER	888-472-4588	SCHLUTER®-RENO-U. STAINLESS STEEL	NONE		GC	GC	GC
	TRANSITION STRIP	TS-10	TRANSITION STRIP (HARD TILE TO CARPET & VINYL TO CARPET)	SCHLUTER	888-472-4588	SCHLUTER®-RENO-TK. STAINLESS STEEL	NONE		GC	GC	GC
GLAZING	MIRROR	MIR-03	MIRROR (LIGHT FUME')	A-1 GLASS COMPANY, INC	CRAIG AITKEN (860-289-3481)	1/4" WALKER GRAY MIRROR	NONE	-	GC	GC	GC
METAL											
MISC.											

1-LC10-G020-REV00

LC10 ESSENTIALS: FLOORING / BASEBOARD TAKEOFF

ROOM #	ROOM NAME	MATERIAL	FINISH TAG	DIMENSIONS SQ. FT. or LINEAR FT.
101	RETAIL SALES	*FLOORING*	*TF-505*	*1,472 SQ. FT.*
		BASEBOARD	*B-197*	*42 L.F.*
102	OD RECEPTION	*FLOORING*	TF-505	351 SQ. FT.
		BASEBOARD	B-200b	78 L.F.
103	OD ADMIN	*FLOORING*	*TF-505*	*101 SQ. FT.*
		BASEBOARD	*B-200b*	*37 L.F.*
104	LAB	FLOORING	VFT-192	128 SQ. FT.
		BASEBOARD	B-200b	54 L.F.
105	PRETEST 1	*FLOORING*	*C-192*	*10'-4" x 9'-2"*
		BASEBOARD	*B-200b*	*36 L.F.*
106	PRETEST 2	FLOORING	C-192	*10'-4" x 9'-2"*
		BASEBOARD	B-200b	36 L.F.
107	CORRIDOR	*FLOORING*	*TF-505*	*198 SQ. FT.*
		BASEBOARD	*B-200b*	*76 L.F.*
108	RESTROOM 1	FLOORING	TF-505	57 SQ. FT.
		WALL TILE	WT-505	216 SQ. FT.
109	RESTROOM 2	*FLOORING*	*TF-505*	*57 SQ. FT.*
		WALL TILE	*WT-505*	*216 SQ. FT.*
110	OFFICE	FLOORING	VFT-192	57 SQ. FT.
		BASEBOARD	B-200b	27 L.F.
111	BOH	*FLOORING*	*VFT-192*	*301 SQ. FT.*
		BASEBOARD	*B-200b*	*70 L.F.*
112	ELECTRICAL	FLOORING	VFT-192	88 SQ. FT.
		BASEBOARD	B-200b	37 L.F.
113	EXAM 2 + M EXAM	*FLOORING*	*C-192*	*13'-0" x 9'-7"*
		BASEBOARD	*B-200b*	*42 L.F.*
114	EXAM 1	FLOORING	C-192	*13'-4" x 9'-6"*
		BASEBOARD	B-200b	43 L.F.
115	CONTACTS	*FLOORING*	*TF-505*	*154 SQ. FT.*
		BASEBOARD	*B-200b*	*49 L.F.*

THIS SCHEDULE IS TO ASSIST WITH TAKE-OFFS OF THE SPECIFIED FINISHES. GC SHALL VERIFY FOR GC SUPPLIED ITEMS. GC IS RESPONSIBLE FOR SUPPLYING NECESSARY QUANTITIES OF REQUIRED FINISHES TO COMPLETE PROJECT.

SIGNAGE / GRAPHICS TAKEOFF SCHEDULE

CODE	DESCRIPTION	QUANTITY	PROVIDED BY SIGNAGE VENDOR?
LC09-PCDF-LC-24	LENSCRAFTERS SIGN @ STOREFRONT (PAN CHANNEL LETTERS - DUAL FILM)	1	YES
LC09-PCDF-VC-8	VISION CENTER SIGN @ STOREFRONT (PAN CHANNEL LETTERS - DUAL FILM)	1	YES
LC09-GR15	DOCTORS & HOURS VINYL GRAPHIC (1-DOOR STATES)	1	NO
LC09-GH16	DOCTORS HOURS SLAT SIGN	1	NO
LC09-GH23	DR./OPT. LICENSE CERTIFICATE SNAP FRAMES	4	NO
LC09-GH30	TBD	2	NO
LC09-GR32-C	DOOR SIGN/ROOM ID - CONTACTS	1	NO
LC09-GR32-PT1	DOOR SIGN/ROOM ID - PRETEST 1	1	NO
LC09-GR32-PT2	DOOR SIGN/ROOM ID - PRETEST 2	1	NO
LC09-GR32-EX1	DOOR SIGN/ROOM ID - EXAM 1	1	NO
LC09-GR32-EX2	DOOR SIGN/ROOM ID - EXAM 2	1	NO
LC09-GR32-RR-W2	DOOR SIGN/ROOM ID - MEN'S RESTROOM	1	NO
LC09-GR32-RR-W3	DOOR SIGN/ROOM ID - WOMEN'S RESTROOM	1	NO
LC09-GR32-L	DOOR SIGN/ROOM ID - LAB	1	NO
LC09-GR32-EM	DOOR SIGN/ROOM ID - EMPLOYEES	1	NO
LC09-GR32-E	DOOR SIGN/ROOM ID - ELECTRICAL	1	NO
LC09-GR32-EXT	DOOR SIGN/ROOM ID - EXIT	2	NO

DESIGN & CONSTRUCTION MANAGEMENT:

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NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
BRUNSWICK SQUARE MALL
755 NJ-18
SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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△		
△		
△		
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FAX: (817) 635-5699

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
SCHEDULES

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.: G020

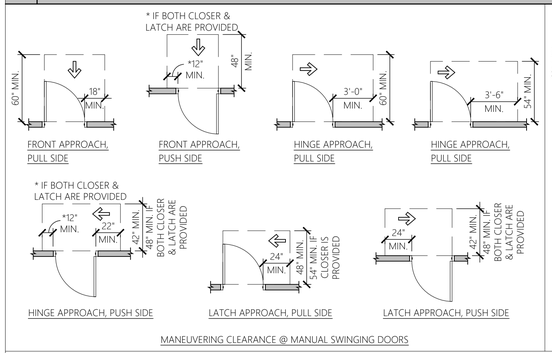
4 LIFE SAFETY NOTES

1. PROVIDE EXIT SIGNS AND DIRECTIONAL EXIT SIGNS AT LOCATIONS SHOWN ON THE FLOOR PLAN. EXIT SIGNS SHALL HAVE A MAXIMUM 6" HIGH BY 3/4" STROKE BLOCK LETTERS ON A CONTRASTING BACKGROUND.
2. EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED BY TWO ELECTRIC LAMPS OR SHALL- BE OF APPROVED SELF-LUMINOUS TYPE. IF TWO LAMPS ARE USED, POWER SUPPLY TO ONE OF THE LAMPS SHALL BE PROVIDED BY THE PREMISES WIRING SYSTEM. POWER SUPPLY TO THE OTHER LAMP SHALL BE FROM STORAGE BATTERIES. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
3. EMERGENCY LIGHTING SHALL BE PROVIDED FROM AN EMERGENCY POWER SYSTEM AND SHALL PROVIDE A VALUE OF ONE FOOT CANDLE AT FLOOR LEVEL.
4. ALL DOORS TO BE OPERABLE IN THE DIRECTION OF EGRESS TRAVEL AT ALL TIMES.
5. FIRE MARSHAL TO DETERMINE FINAL QUANTITIES AND LOCATION OF FIRE EXTINGUISHERS.

4-LC09-LS100-REV02

3 ACCESSIBILITY MANEUVERING CLEARANCES

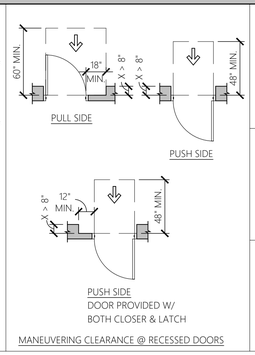
*SEE SHEET G002 FOR GENERAL ACCESSIBILITY INFORMATION



FRONT APPROACH, PULL SIDE | FRONT APPROACH, PUSH SIDE | HINGE APPROACH, PULL SIDE | HINGE APPROACH, PULL SIDE

HINGE APPROACH, PUSH SIDE | LATCH APPROACH, PULL SIDE | LATCH APPROACH, PUSH SIDE

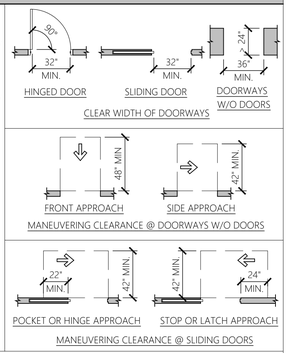
MANEUVERING CLEARANCE @ MANUAL SWINGING DOORS



PULL SIDE | PUSH SIDE

PUSH SIDE
DOOR PROVIDED W/ BOTH CLOSER & LATCH

MANEUVERING CLEARANCE @ RECESSED DOORS



HINGED DOOR | SLIDING DOOR | DOORWAYS W/O DOORS

CLEAR WIDTH OF DOORWAYS

FRONT APPROACH | SIDE APPROACH

MANEUVERING CLEARANCE @ DOORWAYS W/O DOORS

POCKET OR HINGE APPROACH | STOP OR LATCH APPROACH

MANEUVERING CLEARANCE @ SLIDING DOORS

3-LC09-LS100-REV00

2 SECTION 906 PORTABLE FIRE EXTINGUISHERS

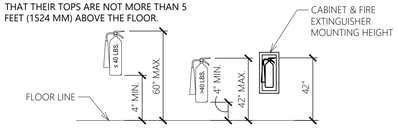
[F] TABLE 906.3(1) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS.
MINIMUM RATED SINGLE FIRE EXTINGUISHER - SEE TABLE
MAXIMUM FLOOR AREAS - SEE TABLE
MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER = 75'-0"

[F] 906.9 EXTINGUISHER INSTALLATION.
THE INSTALLATION OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH SECTIONS 906.9.1 THROUGH 906.9.3.

[F] 906.9.1EXTINGUISHERS WEIGHING 40 POUNDS OR LESS.
PORTABLE FIRE EXTINGUISHERS HAVING A GROSS WEIGHT NOT EXCEEDING 40 POUNDS (18 KG) SHALL BE INSTALLED SO THAT THEIR TOPS ARE NOT MORE THAN 5 FEET (1524 MM) ABOVE THE FLOOR.

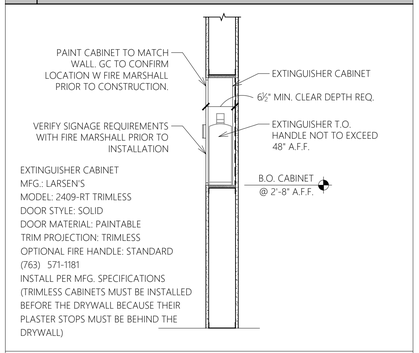
[F] 906.9.2 EXTINGUISHERS WEIGHING MORE THAN 40 POUNDS.
HAND-HELD PORTABLE FIRE EXTINGUISHERS HAVING A GROSS WEIGHT EXCEEDING 40 POUNDS (18 KG) SHALL BE INSTALLED SO THAT THEIR TOPS ARE NOT MORE THAN 3.5 FEET (1067 MM) ABOVE THE FLOOR.

[F] 906.9.3 FLOOR CLEARANCE.
THE CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF INSTALLED HAND-HELD PORTABLE FIRE EXTINGUISHERS SHALL BE NOT LESS THAN 4 INCHES (102 MM).



2-LC09-LS100-REV00

1 RECESSED FIRE EXTINGUISHER CABINET



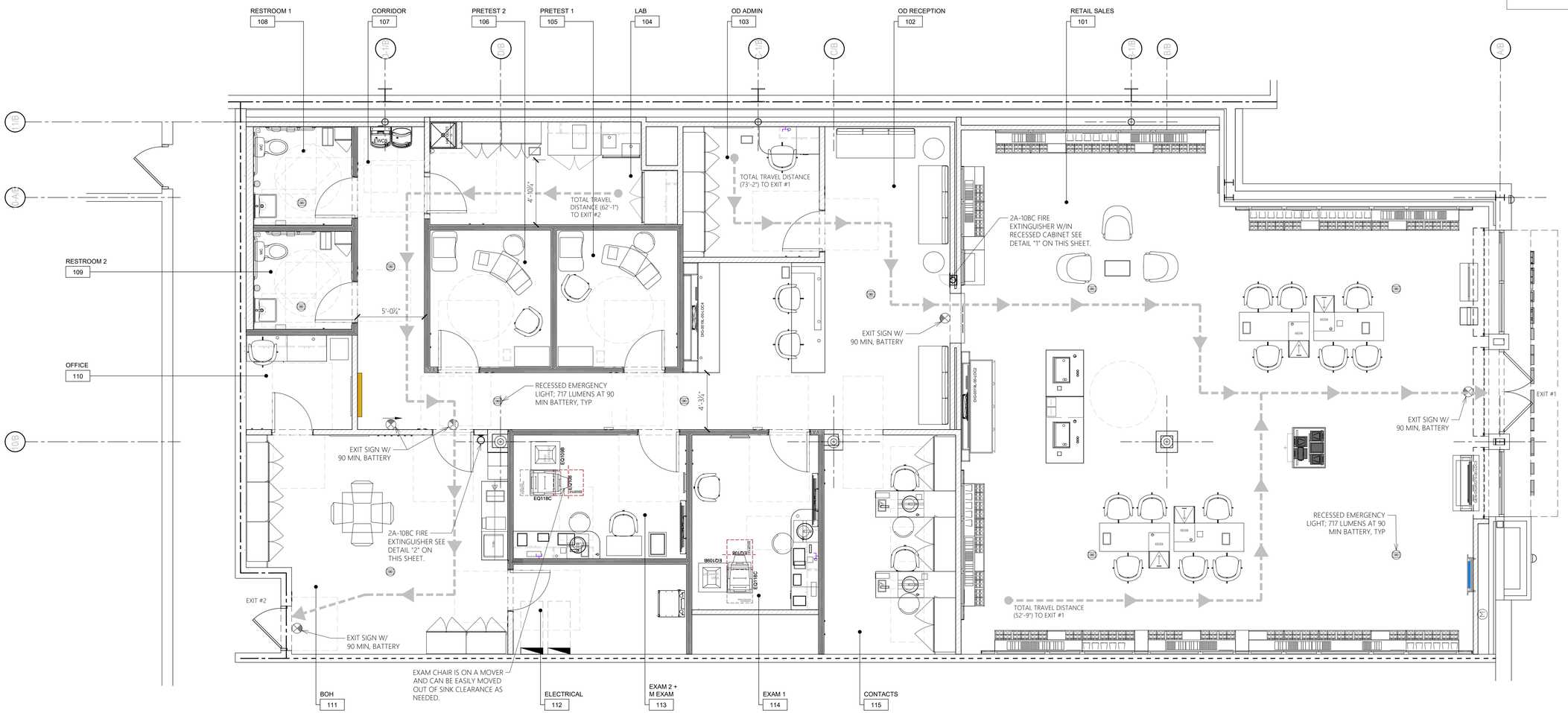
EXTINGUISHER CABINET
MFG.: LARSEN'S
MODEL: 2409-RT TRIMLESS
DOOR STYLE: SOLID
DOOR MATERIAL: PAINTABLE
TRIM PROJECTION: TRIMLESS
OPTIONAL FIRE HANDLE: STANDARD
(763) 571-1181
INSTALL PER MFG. SPECIFICATIONS
(TRIMLESS CABINETS MUST BE INSTALLED BEFORE THE DRYWALL BECAUSE THEIR PLASTER STOPS MUST BE BEHIND THE DRYWALL)

1-LC09-LS100-REV02

5 LEGEND

PATH/ DIRECTION OF EGRESS
1 HOUR RATED WALL
3 HOUR RATED WALL

5-LC09-LS100-REV02



LIFE SAFETY PLAN

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

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
BRUNSWICK SQUARE MALL
755 NJ-18
SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By

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Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number: 101653

Brand Design Type: LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: LIFE SAFETY PLAN

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.: LS100

3 DEMOLITION PLAN LEGEND

—— · ——	LEASE LINE	═══	EXISTING WALLS
— — —	CONSTRUCTION TO BE DEMOLISHED	▬▬	EXISTING FULL HEIGHT GLASS

3-LC09-AD101-REV00

4 BARRICADE NOTES

BARRICADE & BARRICADE GRAPHICS:

- BARRICADE GRAPHICS ARE TO BE PROVIDED AND INSTALLED BY THE TENANT UPON COMPLETION OF THE BARRICADE INSTALLATION, OR UPON FULL EXECUTION OF THE TENANT LEASE.
- BARRICADE GRAPHICS ARE TO BE SUBMITTED TO THE TENANT COORDINATOR FOR APPROVAL PRIOR TO INSTALLATION. ALL GRAPHICS ARE TO BE ORDERED THROUGH BOSTON BARRICADE.
- ANY REQUIRED BARRICADE AND OR GRAPHICS TO BE SUPPLIED BY VENDOR OTHER THAN BOSTON BARRICADE DUE TO LANDLORD REQUIREMENTS, SHALL BE COORDINATED, SUPPLIED, AND INSTALLED BY GENERAL CONTRACTOR.

4-LC09-AD101-REV00

5 BOSTON BARRICADE CONTACT

DEREK RUDASILL

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1151 19TH STREET
VERY BEACH, FL 32960
DIRECT: 772-257-7399
DRUDASIL@BOSTONRS.COM

LAUREN SMITH

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VERY BEACH, FL 32960
DIRECT: 772-257-7324
LSMITH@BOSTONRS.COM

5-LC09-AD101-REV05

2 EXISTING CONDITIONS PLAN - KEY NOTES (#)

1. LEASE LINE, VIF, G.C. TO VERIFY ACTUAL MEASUREMENTS AND REPORT ANY DISCREPANCIES IMMEDIATELY.
2. EXISTING STOREFRONT GLAZING ASSEMBLY & FRAMING, INCLUDING ENTRY DOORS AND HARDWARE TO REMAIN. CLEAN AND RENDER TO "LIKE NEW".
3. EXISTING CONCRETE SLAB. PATCH AND REPAIR SUB-FLOOR TO ORIGINAL CONDITION AND RE-SEAL ALL FLOOR PENETRATIONS. PREP FOR NEW FINISHES.
4. EXISTING PERIMETER/DEMISING WALLS TO REMAIN. PROTECT IN PLACE AND KEEP INTACT EXISTING FIRE RATINGS. SEE DETAIL 4/A400 IF PATCH AND REPAIR IS REQUIRED. PREPARE ALL EXISTING SURFACES TO RECEIVE NEW FINISHES AS REQUIRED AND BRING TO A LEVEL 4 FINISH WHERE APPLICABLE.
5. EXISTING ELECTRICAL PANEL LOCATION. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION ON THE EXTENT OF NEW WORK. VERIFY EXACT LOCATION IN FIELD.
6. EXISTING COLUMN TO REMAIN. GC TO VERIFY LOCATION AT START OF PROJECT AND REPORT DIMENSIONS TO ARCHITECT.
7. EXISTING STRUCTURAL COLUMN WITH INTEGRAL ROUND FIREPROOFING COVER. PROTECT IN PLACE DURING CONSTRUCTION. GC TO VERIFY LOCATION AT START OF PROJECT AND REPORT DIMENSIONS TO ARCHITECT.
8. EXISTING RATED REAR DOOR AND HARDWARE TO REMAIN. CLEAN AND RENDER TO 'LIKE NEW'.
9. EXISTING WALL MOUNTED WATER SERVICE AND METER, VERIFY EXACT LOCATION IN FIELD.

2-LC09-AD101-REV02

1 GENERAL NOTES

A. G.C. IS RESPONSIBLE FOR ANY PREPARATION OF THE FLOOR SLAB AND PROCUREMENT OF MATERIALS REQUIRED AT THE ENTRANCE TO PRODUCE A FLUSH CONDITION BETWEEN THE STORE LEASE LINE AND THE EXISTING MALL FLOORING.

B. THE G.C. SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND/OR WORKMEN ON THE JOB AND TO PREVENT ACCIDENTS OR INJURY TO ANY PERSON ON, ABOUT, OR ADJACENT TO THE PREMISES. THE G.C. SHALL COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS RELATIVE TO SAFETY AND THE PREVENTION OF ACCIDENTS.

C. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF WORKING DRAWINGS. DO NOT REMOVE OR DEMOLISH ANYTHING WITHOUT VERIFYING AND COORDINATING WITH ALL GENERAL TRADES AS TO HOW THEY RELATE TO THE OVERALL PROJECT.

D. THE G.C. SHALL BE RESPONSIBLE FOR REMOVING OR DEMOLISHING EXISTING CONSTRUCTION WHICH WILL INTERFERE WITH THEIR NEW WORK AND ANY TEMPORARY BRACING OR PERMANENT SUPPORT STRUCTURES.

E. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND/OR SPRINKLER DRAWINGS FOR ANY ADDITIONAL DEMOLITION NOTES.

F. EXISTING EXPOSED CONCRETE THROUGHOUT. CAP EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SERVICES FLUSH WITH EXISTING SLAB AS REQUIRED, TYPICAL THROUGHOUT. REFER TO RESPONSIBILITY SCHEDULE ON G002 AND SHEET A103 FOR FLOORING PREPARATION.

G. COORDINATE ANY SYSTEMS SHUTDOWNS WITH LANDLORD & INCLUDE COSTS OF SHUTDOWN IN THE BID.

H. EXCEPT AS NOTED, G.C. SHALL INCLUDE COSTS TO CUT, PATCH AND/OR REPAIR EXISTING WORK AND EXISTING FACILITIES WHICH MAY BE DISTURBED DURING INSTALLATION OF NEW WORK IN BID PACKAGES.

I. IN ACCORDANCE WITH THE DRAWINGS, THOSE ITEMS WHICH ARE REMOVED, AND ARE NOT RELOCATED OR REUSED, SHALL BE DISPOSED OF BY THE G.C.

J. G.C. SHALL REMOVE EXISTING FINISHES FROM ALL EXISTING PARTITIONS TO REMAIN.

K. G.C. TO INSPECT ALL EXISTING WALLS TO REMAIN AND ENSURE THAT THEY ARE UP TO CURRENT SPECIFICATIONS AND BROUGHT TO A LEVEL 4 FINISH WHERE EXPOSED IN NEW LAYOUT.

L. GC SHALL REPAIR, AT THEIR OWN EXPENSE, ANY DAMAGE DONE TO THE OWNER'S PROPERTY, AND ANY OTHER PERSON OR PERSONS ON OR OFF THE PREMISES AS A RESULT OF THE GC'S WORK DEFINED HEREIN.

M. LANDLORD RECOMMENDS, BUT DOES NOT REQUIRE FLOOR X-RAYS PRIOR TO TRENCHING.

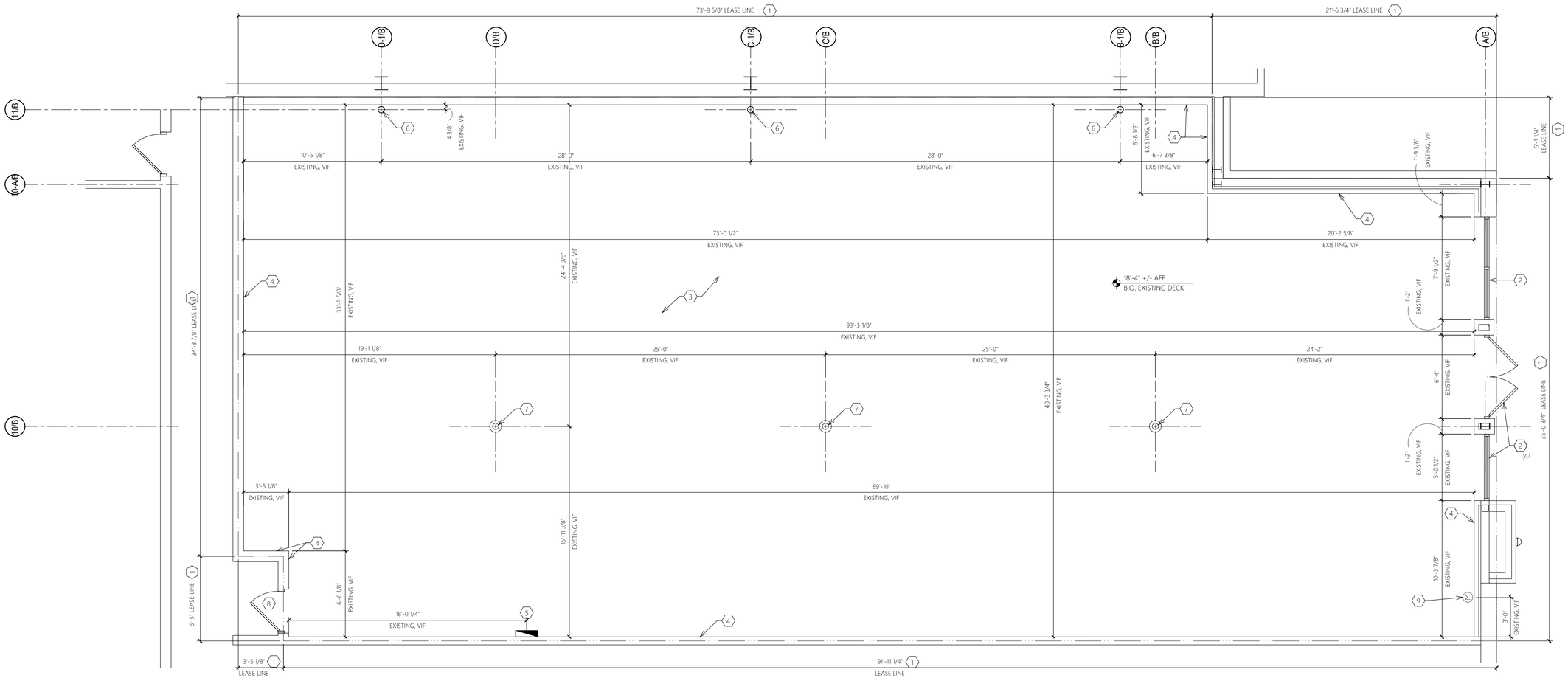
N. ALL EXISTING AND NEW PENETRATIONS THROUGH RATED WALLS SHALL BE PROTECTED BY AN APPROVED FIRE STOP SYSTEM.

O. G.C. TO REPORT ACTUAL DIMENSIONS VS SHOWN DIMENSIONS TO PROJECT MANAGER PRIOR TO CONSTRUCTION LAYOUT.

P. PATCH EXISTING CONCRETE AS REQUIRED. REFER TO DETAIL 19/A411 FOR SLAB POUR BACK DETAIL.

Q. G.C. TO COORDINATE THE TENANT PROVIDED AND INSTALLED TEMPORARY WINDOW GRAPHICS TO ACT AS CONSTRUCTION BARRICADE. COORDINATE REQUIREMENTS WITH LANDLORD.

1-LC09-AD101-REV02



EXISTING CONDITIONS PLAN

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

DESIGN & CONSTRUCTION MANAGEMENT:

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NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
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Construction for:

LensCrafters
A Brand of EssilorLuxottica

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Sheet Name:
EXISTING CONDITIONS PLAN

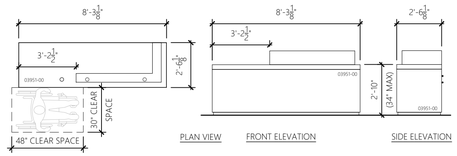
Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.:
AD101

TARGET FACINGS - PLATINUM / 1000		
BRAND	**TARGET FACINGS**	**ACTUAL FACINGS**
RAYBAN	180	200
OAKLEY	80	80
LUXURY	400	400
CONSUMER	340	320
TOTAL	1000	1000

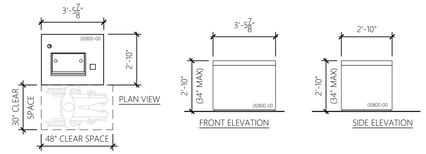
MANUAL TAKEOFF ITEMS			
CODE	**DESCRIPTION**	**QUANTITY**	**UOM**
LC-MAGNET	MAGNET	9	PCS
LC-09850-00	HARDWARE KIT - LC09	1	PCS

A O.D. RECEPTION DESK



A-LC09-A100-REV02

B RETAIL CASHWRAP



B-LC09-A100-REV02

2 KEY NOTES

1. INSTALL SIGNAGE AND GRAPHICS PACKAGE ITEMS AS INDICATED, REFER TO RESPONSIBILITY SCHEDULE ON G002. REFER TO G002 SIGNAGE ACCESSIBILITY, INTERIOR AND EXTERIOR ELEVATIONS FOR MOUNTING DIMENSIONS AS APPLICABLE. REQUEST SIGNAGE AND GRAPHICS STANDARD FROM ESSILOR LUXOTTICA PROJECT MANAGER
2. NEW WALL LIGHT FIXTURES. SEE ELEVATIONS ON A210 AND ELECTRICAL SHEETS FOR MORE INFORMATION.
3. INSTALL NEW MOP SINK IN THE LAB AS INDICATED. COORDINATE WITH PLUMBING DRAWINGS.
4. IN-WALL BLOCKING IS REQUIRED FOR COAT HOOKS AT 48" AND 72" TO CENTERLINE OF HOOKS (EXCEPT IN RESTROOMS, THE LOWER HOOK IS AT 44" TO CENTERLINE). SEE ELEVATIONS FOR LOCATION DIMENSIONS.
5. NOT USED.
6. 2A-10BC FIRE EXTINGUISHERS AS DIRECTED BY THE FIRE MARSHAL. (SUGGESTED LOCATIONS AND QUANTITIES ON PLAN.) SEE SHEET LS100 FOR MORE INFORMATION.
7. SEE SHEET A401 FOR BLOCKING REQUIREMENTS FOR ALL WALL MOUNTED FIXTURES.
8. HI-LOW DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING SHEETS AND SHEET A210 FOR MORE INFORMATION.
9. APPLY PAINTABLE CAULK WHERE MILLWORK MEETS GYP BD. WALL.
10. CONTRACTOR TO BOLT SAFE TO FLOOR. CHECK WITH SAFE MANUFACTURER FOR KIT OR BOLTING INSTRUCTIONS.
11. G.C. TO FURNISH AND INSTALL 'BRTAB' TABLE. MANUFACTURER: SIT ON IT, TENSOR TABLE TOP AND BASE. ALL BLACK FINISH. 36"WX36"DX29"H.
12. GC TO PROVIDE BRACKETS FOR FLOATING SHELF SUPPORT; RAKKS (EH-1209FM). SEE INTERIOR ELEVATION FOR SIZE AND MOUNTING HEIGHTS.
13. NEW PLUMBING FIXTURES AND ASSOCIATED ACCESSORIES TO BE INSTALLED. SEE ENLARGED RESTROOMS PLANS AND TYPICAL RESTROOM ELEVATIONS ON SHEET A210 AND PLUMBING SHEETS FOR MORE INFORMATION. REFER TO RESPONSIBILITY SCHEDULE ON SHEET G002
14. ACCESSIBLE COUNTER TO COMPLY WITH FEDERAL, STATE, & LOCAL CODES. SEE CORRESPONDING DETAILS 'A' & 'B' ON THIS SHEET.
15. INSTALL WALL FIXTURES SEQUENTIALLY STARTING AT THIS POINT. FIELD VERIFY LENGTH OF WALL REQUIRED FOR FIXTURES, PRIOR TO INSTALLATION. REPORT TO ANY DISCREPANCIES TO THE ESSILOR LUXOTTICA PROJECT MANAGER. COORDINATE WITH ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENT OF FIXTURES.
16. SURFACE MOUNTED LIGHT BOX. SEE SHEET A430 FOR INSTALLATION DETAILS. SEE ELECTRICAL SHEETS FOR REQUIRED ELECTRICAL INFORMATION.
17. GC TO MODIFY MILLWORK AS REQUIRED FOR SINK INSTALLATION. COORDINATE WITH SINK SIZE.
18. GC TO PROVIDE AND INSTALL 1/2" CLEAR CABINET DOOR BUMPERS, TO BE INSTALLED AFTER MILLWORK INSTALLATION ANYWHERE A CABINET DOOR HITS A WALL.
19. END OF SURFACE MOUNTED BLOCKING TO BE CONCEALED WITH U-CHANNEL BY GC. REFER TO DETAIL 14 & 15 ON A411 FOR MORE INFORMATION.

2-LC09-A100-REVO6

1 GENERAL NOTES

A. NEW EXTERIOR SIGN(S) BY SIGNAGE CONTRACTOR TO BE INSTALLED. SIGNAGE TO COMPLY WITH LOCAL SIGNAGE CODES. SIGNAGE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDLORD FOR APPROVAL.

B. ALL DIMENSIONS ARE TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE ON PLANS.

C. G.C. TO REFERENCE FIXTURE CONTRACTORS SHOP DRAWINGS FOR INSTALLATION INSTRUCTIONS FOR ALL FIXTURES, WALL CABINETS, BASE CABINETS, AND COUNTERTOPS. G.C. TO COORDINATE WITH FIXTURE CONTRACTOR TO ENSURE PROPER FIT OF ALL COMPONENTS.

D. G.C. TO ENSURE FIXTURES ARE PROTECTED DURING CONSTRUCTION.

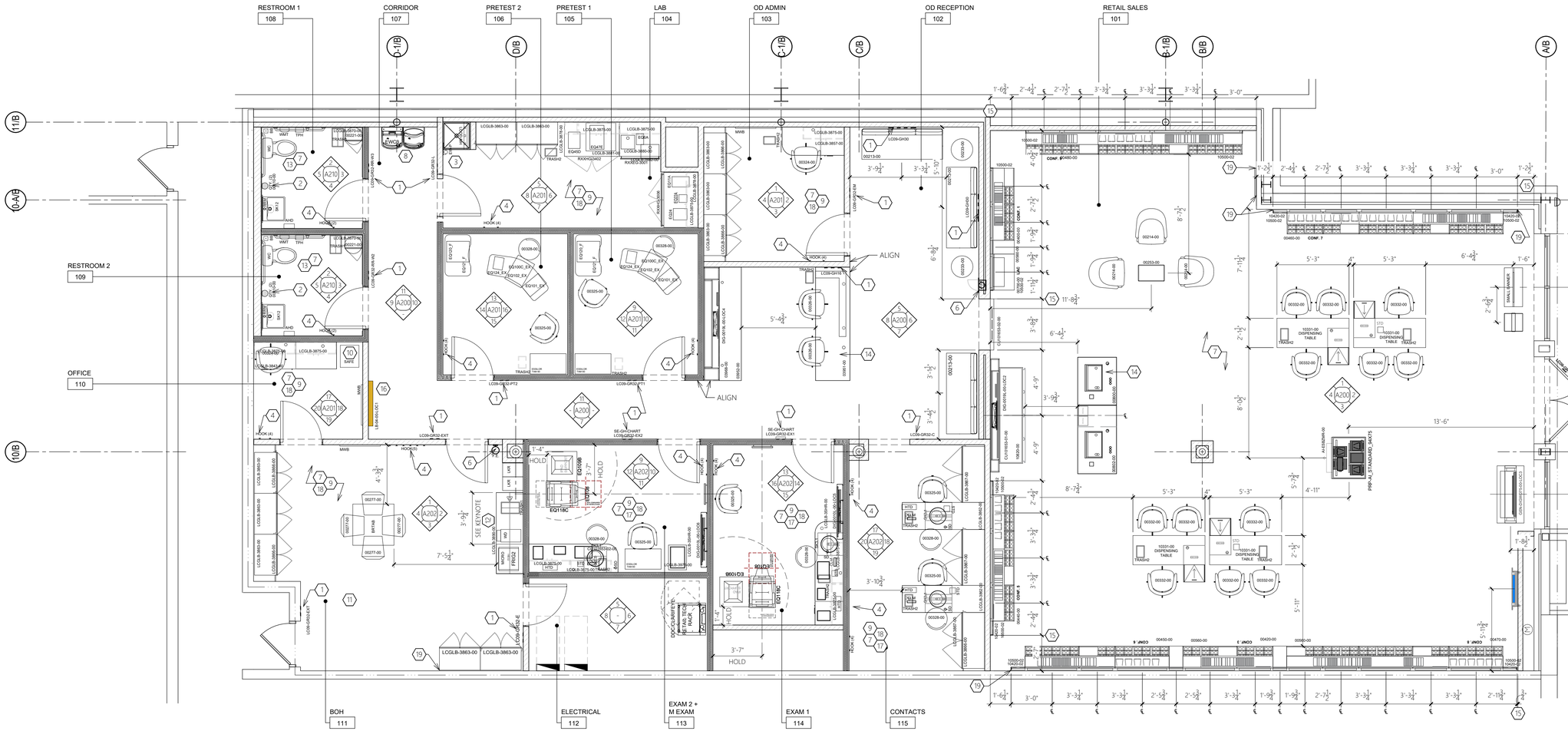
E. G.C. TO PROVIDE ADEQUATE BRACING, AS REQUIED, TO SUPPORT WALL CABINETS AND FIXTURES.

F. G.C. TO SIGN FOR PACKAGES WITH A NOTE "SUBJECT TO CONCEALED DAMAGES" ON IT.

G. FOLLOW ALL MANUFACTURERS INSTALLATION AND MAINTENANCE INSTRUCTIONS.

H. INSTALL ALL SALES AREA FLOOR FIXTURES AS DIMENSIONED. ALL UNDER FLOOR ELECTRICAL TO BE IN CONDUIT (TYP.). COORDINATE WITH ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENT OF FIXTURES.

1-LC09-A100-REV02



FIXTURE PLAN

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

DESIGN & CONSTRUCTION MANAGEMENT:

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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
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CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
FIXTURE FLOOR PLAN

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.: A100

3 WALL LEGEND

	CENTER LINE
	LEASE LINE
	NEW WALLS
	NEW WALL W/ SOUND BATTS
	EXISTING WALLS
	NEW/EXTG. BULKHEAD
DETAIL # / SHEET #	WALL TYPES
#	DOOR NUMBER
	DOORS SHOWN FULLY OPEN TO 90° ARE CONSIDERED AS NEW DOORS, HARDWARE, JAMBS, ETC.
	DOORS SHOWN PARTIALLY OPEN TO 45° ARE CONSIDERED AS EXISTING DOORS. SEE DOOR SCHEDULE FOR MORE INFO.

3-LC09-A101-REV02

2 KEY NOTES (#)

1. LEASE LINE; G.C. TO VERIFY ACTUAL MEASUREMENTS AND REPORT ANY DISCREPANCIES IMMEDIATELY.
2. EXISTING STOREFRONT GLAZING SYSTEM AND CHANNELS TO REMAIN, SEE SHEET A300.
3. APPLY WHITE SILICONE CAULK ALONG JOINTS AT ALL WET AREAS.
4. G.C. TO PROVIDE AND INSTALL A SIGN ABOVE ENTRY DOORS WITH ONE INCH LETTERS STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED". WHEN UNLOCKED, DOORS MUST SWING WITHOUT OPERATION OF ANY LATCHING DEVICE. (NOTE: DEADBOLTS ARE NOT ALLOWED ON SECOND EXIT DOOR.) COLOR AND CONTRAST OF SIGN TO MATCH VENDOR PROVIDED SIGNAGE.
5. EXISTING COLUMN TO REMAIN.
6. EXISTING PARTITION TO REMAIN. G.C. TO PATCH/REPAIR AS REQUIRED TO BRING TO 'LIKE NEW' CONDITION, MAINTAIN REQUIRED FIRE RATING, WHERE APPLICABLE, AND BRING TO A LEVEL 4 FINISH (WHERE EXPOSED TO NEW LAYOUT), TYP.
7. INSTALL NEW MOP SINK WITH HOT WATER HEATER ABOVE THE CEILING IN THE LAB AREA AS INDICATED. EXTEND STUDS FOR NEW WATER HEATER PLATFORM. REFER TO 16/A411 AND PLUMBING DRAWINGS FOR MORE INFORMATION.
8. NEW HAND SINK WITHIN MILLWORK. REFER TO PLUMBING DRAWINGS.
9. ELECTRICAL DISTRIBUTION EQUIPMENT, REFER TO ELECTRICAL DRAWINGS. SEE SHEET A103 FOR FLOOR MARKING FOR REQUIRED CLEARANCE.
10. NEW PHONE BOARD/TECH RACKS MOUNTED ON GC PROVIDED AND INSTALLED (1) 4'X8' F.R. PLY INSTALLED 8' SIDE VERTICAL @ 6" AFF. PAINT TO MATCH WALL BUT DO NOT PAINT OVER FIRE RATED LABELING ON THE PLYWOOD FOR INSPECTOR TO VERIFY PLYWOOD IS RATED. REFER TO ELECTRICAL DRAWINGS. NEW DRAWING TUBE INSTALLED ON PLY, SEE INTERIOR ELEVATION AND DETAIL 13/A411.
11. SEE SHEET A100 FOR EXTENT OF BLOCKING NEEDED FOR FIXTURES.
12. REFER TO SHEET A210 FOR GRAB BAR INSTALLATION DETAILS, TYPICAL.
13. SURFACE MOUNTED LIGHT BOX. SEE SHEET A430 FOR INSTALLATION DETAILS. WALL TYPE IS MODIFIED AT LIGHT BOX LOCATION.
14. FULL HEIGHT MIRROR FROM T.O. BASE TO 8'-10" AFF, SEE 4/A411 FOR PLAN VIEW (WALL TYPE IS MODIFIED AT MIRROR LOCATION) AND SEE 10/A411 FOR SECTION FOR MORE INFORMATION.
15. NO GYP. BD. ON WALL DIRECTLY BEHIND PERIMETER FIXTURES, PROVIDE GYP. BD. FROM 8'-10" AFF TO BOTTOM OF STUD BRACING.
16. PROVIDE AND INSTALL 18"X18" WALL MOUNTED ACCESS PANEL "STEALTH" NO EXPOSED FLANGE TYPE. PAINT TO MATCH ADJACENT WALL AREA. EXACT MOUNTING PLACEMENT TO BE DETERMINED IN FIELD FOR OPTIMAL WATER METER ACCESS
17. EDGE OF CEILING SOFFIT ABOVE, SEE REFLECTED CEILING PLAN A102.
18. OVERHEAD GRILLE SHUTTER HOUSING SHOWN DASHED, SEE REFLECTED CEILING PLAN A102 AND SECTION 3/A300.

2-LC09-A101-REV06

1 GENERAL NOTES

A. GC TO MAINTAIN ALL DIMENSIONS AS SPECIFIED. NOTIFY ESSILOR LUXOTTICA PROJECT MANAGER OF ANY DISCREPANCIES.

B. GC SHALL SUPPLY AND INSTALL BLOCKING AS REQUIRED TO SUPPORT WALL SHELVING AND CABINETS. ANCHOR BLOCKING W/ SCREWS AT TOP MIDDLE AND BOTTOM (NO SILICONE). REFER TO MILLWORK SHOP DRAWINGS FOR MOUNTING HEIGHTS. ALL BLOCKING NOTES FOUND ON SHOP DRAWINGS, SHALL BE PROVIDED AND INSTALLED BY G.C.

C. REFER TO SPECIFICATIONS G003-G005.

D. NO MATERIAL SUBSTITUTIONS WILL BE PERMITTED UNLESS SUBMITTED TO ESSILOR LUXOTTICA PROJECT MANAGER FOR REVIEW AND APPROVAL DURING BIDDING. SUBSTITUTIONS CALLED OUT IN SPECIFICATIONS AS BEING NEEDED TO BE NOTED AT TIME OF BID.

E. ALL MANUFACTURERS RECOMMENDED INSTALLATION AND MAINTENANCE PROCEDURES ARE TO BE FOLLOWED BY GENERAL CONTRACTOR ON THIS PROJECT.

F. GENERAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE ESSILOR LUXOTTICA PROJECT MANAGER LISTED AS SOON AS CONTRACTS ARE AWARDED TO COMMUNICATE DESIRED SCHEDULE DATES AND PROJECT INFORMATION.

G. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL UPCHARGES ASSOCIATED WITH THE DELAY OF ORDERING SPECIFIED PRODUCTS.

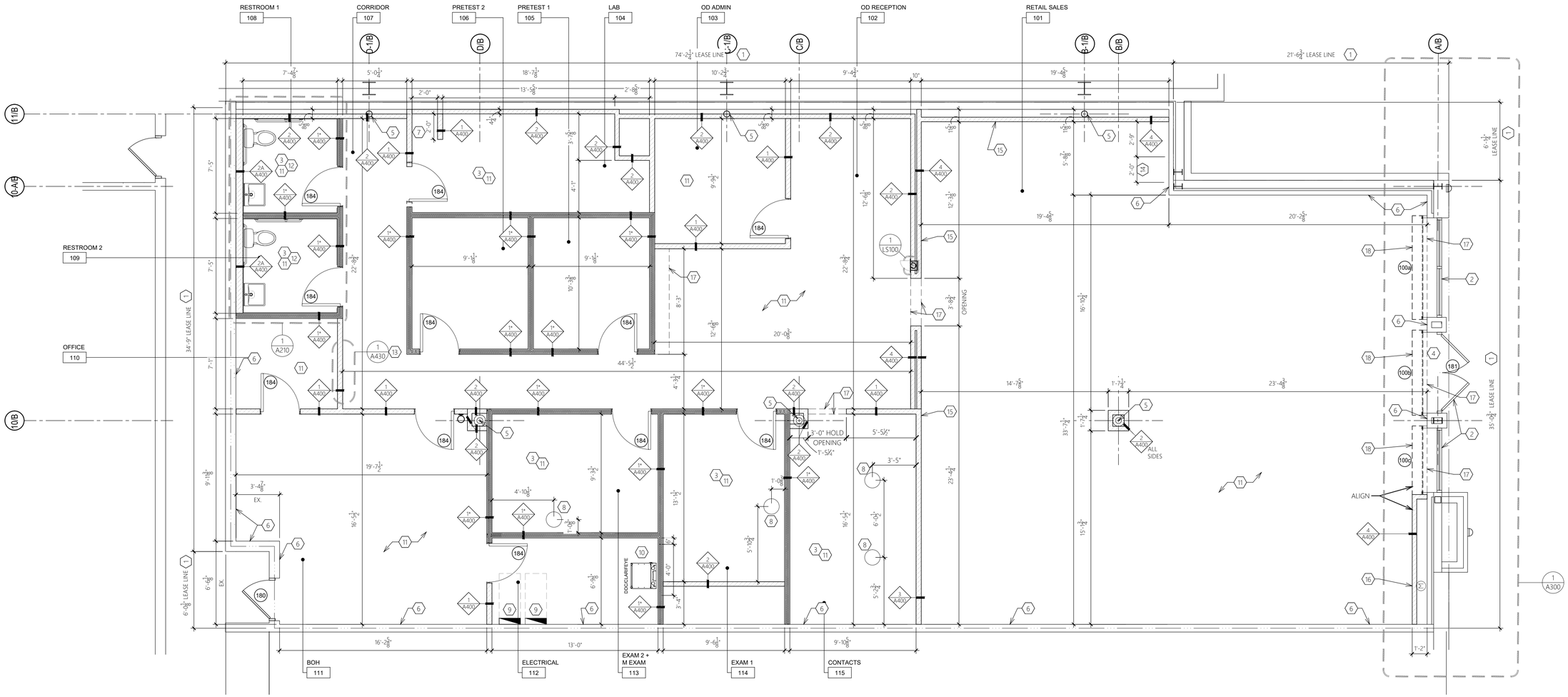
H. ANY QUESTIONS CONCERNING THESE SPECIFICATIONS SHALL BE DIRECTED TO THE ARCHITECT FOR DOCUMENT CLARIFICATION.

I. ALL TENANT FURNISHED ITEMS (MATERIAL AND LABOR) TO BE SCHEDULED, COORDINATED & SUPERVISED BY GC.

J. THESE CONSTRUCTION DOCUMENTS ARE NOT TO BE SCALED. ALL DIMENSIONS ARE TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE ON PLANS.

K. ALL NEW AND EXISTING GYP. WALL BOARD TO BE FINISH LEVEL 4. CEILING GYP. TO BE LEVEL 5 FINISH.

1-LC09-A101-REV02



CONSTRUCTION FLOOR PLAN

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

DESIGN & CONSTRUCTION MANAGEMENT:

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A Brand of EssilorLuxottica

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Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
CONSTRUCTION FLOOR PLAN

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.:
A101

A CEILING LEGEND

SYMBOL	TYPE	DESCRIPTION	SYMBOL	TYPE	DESCRIPTION	SYMBOL	TYPE	DESCRIPTION
	i1 i2 i3	TRACK LIGHT HEAD. COLOR TO MATCH TRACK.		X1RW	EXIT SIGN - EDGE LIT LED (SEE GENERAL NOTE 'B' FOR MOUNTING) PAINT TRIM COVER TO MATCH CLG FINISH			SUPPLY DIFFUSER; GC TO PAINT
	t#:LENGTH	SURFACE MTD. THREE CIRCUIT TRACK t# = TRACK COLOR BLACK LENGTH = LENGTH OF TRACK		T-SPK	TRACK MOUNT SPEAKER, COLOR TO MATCH TRACK			RETURN DIFFUSER; GC TO PAINT
	u#:LENGTH	PENDANT MTD. THREE CIRCUIT TRACK u# = TRACK COLOR BLACK LENGTH = LENGTH OF TRACK		C1	SECURITY CAMERA - PENDANT MOUNT			EXHAUST FAN
	00110-00	WALL SCONCE. SEE ELEVATIONS FOR MOUNTING LOCATION AND MOUNTING HEIGHTS			CONCEALED HEAD, CUSTOM COLOR CAP TO MATCH CEILING FINISH PREFERRED LOCATIONS SHOWN ON PLAN		TC	TRAFFIC COUNTER (SHOPPER TRAK) - PENDANT MOUNT
	REM1	RECESSED EMERGENCY LIGHT, PAINT ENTIRE ASSEMBLY TO MATCH CEILING, EXCEPT FOR LIGHT SOURCE						
	REM2	PENDANT MOUNT EMERGENCY LIGHT.			PENDANT HEAD			
	p01	RECESSED 2X2 LAY-IN FIXTURE - SEE ELECTRICAL SHEETS		WI-FI	WIFI			
					DOORBELL/STROBE - SEE ELECTRICAL SHEETS			

A-LC09-A102-REV06

3 SPRINKLER NOTES

FOR EXISTING FIRE SPRINKLER SYSTEM:
CONTRACTOR SHALL REWORK AND MODIFY THE SYSTEM IF NECESSARY FOR THE NEW SPACE CONFIGURATION. MODIFICATIONS SHALL BE DESIGNED AND INSTALLED BY A QUALIFIED FIRE SPRINKLER CONTRACTOR, WHO SHALL PREPARE DESIGN/SHOP DRAWINGS OF THE SYSTEM AND SUBMIT SUCH DRAWINGS TO THE ARCHITECT, LANDLORD AND BUILDING & FIRE DEPARTMENTS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA, STANDARD 101, AND ANY OTHER STATE OR LOCAL CODES HAVING JURISDICTION.

SPRINKLER COVER PLATE, CUSTOM COLORED FINISH FOR CONCEALED HEADS
THIS IS A GC SUPPLIED AND INSTALLED ITEM.

TO ORDER, CONTACT QUICK RESPONSE FIRE SUPPLY (888) 361-6662. THERE WILL BE A PAINT SETUP FEE "PER ORDER."

INFORMATION TO HAVE READY:
- SPRINKLER IDENTIFICATION NUMBER OR SIN #(TYPICALLY ON SPRINKLER HEAD BEGINNING WITH 1-2 LETTERS FOLLOWED BY 3-4 #'s.)
- QUANTITY
- BENJAMIN MOORE PAINT #, PAINT NAME, & PAINT SHEEN

THIS IS A 6-8 WEEK LEAD TIME AND MUST BE ORDERED AT THE BEGINING OF PROJECT.

3-LC09-A102-REV03

2 KEY NOTES

1. NEW STOREFRONT SIGN BY SIGN CONTRACTOR. SIGN TO BE MOUNTED ON THE FRONT OF THE BUILDING, SEE A300.
2. OPEN TO DECK CEILING. DECK, DUCTWORK, DIFFUSERS AND ALL OTHER ASSOCIATED ELEMENTS ARE TO BE PAINTED P-187. ALL DIFFUSERS ARE TO BE PAINTED BEFORE BEING INSTALLED.
3. INSTALL NEW ACOUSTICAL CEILINGS AS INDICATED PER THE FINISH SCHEDULE ON SHEET G020. SEE SHEET A440 FOR CEILING DETAILS.
4. SECURITY SHUTTER HOUSING DIRECTLY ABOVE GLAZING, GC TO PAINT P-187 TO MATCH ADJACENT WALL FINISH. SEE INTERIOR ELEVATION 2/A400.
5. ALL LIGHT FIXTURES ARE PENDANT MOUNT, TOP OF FIXTURE @ 9'-10" AFF.
6. DIFFUSERS MOUNTED AT 9'-10" AFF.
7. NEW WALL LIGHT FIXTURES, SEE ELEVATIONS ON A200-A210 AND ELECTRICAL SHEETS FOR MORE INFORMATION.
8. SECURITY CAMERA SYSTEM INSTALLED BY TENANT VENDOR WITH VENDOR PROVIDED BLACK POLES. LOCATIONS INDICATED ON PLAN. COORDINATE WITH SECURITY VENDOR BEFORE INSTALLATION. LOCATION OF CAMERAS SHALL BE MARKED CLEARLY IN ORDER FOR SECURITY CAMERA TECHNICIAN TO LOCATE. ALL WIRING TO BE PROVIDED AND INSTALLED PER ELECTRICAL PLANS.
9. TRACK MOUNTED SPEAKER SYSTEM INSTALLED BY TENANT VENDOR. G.C. TO COORDINATE WITH VENDOR.
10. PENDANT MOUNT TRAFFIC COUNTER (SHOPPER TRAK). GC TO FURNISH AND INSTALL RIGID ROD FOR INSTALLATION FROM DECK TO 9'-10" AFF (V.I.F. RIGID POLE LENGTH). PAINT ROD P-501. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
11. INSTALL NEW EXHAUST FAN IN THE TOILET ROOM AS INDICATED. COORDINATE WITH MECHANICAL DRAWINGS FOR DETAILS.
12. PENDANT MOUNT WIRELESS ACCESS POINT, OBERON 1019-RM. BLACK, ABS PLASTIC, STICK ON COVER. WITH VENDOR PROVIDED BLACK POLES FOR INSTALLATION FROM DECK TO 9'-10" AFF. EC TO COORDINATE POWER REQUIREMENTS, SEE ELECTRICAL DRAWINGS FOR POWER INFORMATION.
13. GYP. BD. SOFFIT OPENING @ 8'-6" AFF, PAINT P-200. SEE DETAIL 8/A400.
14. GYP. BD. SOFFIT @ 9'-10 1/4" AFF, PAINT P-200. SEE DETAIL 8/A411.
15. TRACKS SHIP WITH SPACERS, SPACERS ARE ONLY INSTALLED ON ACT CEILINGS. DO NOT INSTALL SPACERS IN OPEN CEILING.
16. PENDANT MOUNT DOORBELL/STROBE @ 9'-10" AFF. GC TO FURNISH AND INSTALL RIGID ROD FOR INSTALLATION FROM DECK TO 9'-10" AFF (VIF RIGID POLE LENGTH). PAINT ROD P-501. REFER TO ELECTRICAL DRAWINGS PLANS FOR MORE INFORMATION
17. DIFFUSERS LOCATED IN AN AC-8 CEILING ARE TO BE PAINTED P-108. ALL DIFFUSERS ARE TO BE PAINTED BEFORE BEING INSTALLED.
18. RECESSED WIRELESS ACCESS POINT, OBERON 1019-RM. GC TO PROVIDE OPENING PER DIMENSIONED LOCATION PER MANUFACTURER INSTALLATION GUIDELINES. EC TO COORDINATE POWER REQUIREMENTS, SEE ELECTRICAL DRAWINGS FOR POWER INFORMATION. AFTER INSTALLED, GC TO PAINT COVER TO MATCH CEILING, P-XXX.
19. START CEILING GRID IN ROOM AS SHOWN.
20. GYP. BD. SOFFIT OPENING @ 8'-2"AFF, PAINT P-200. SEE SIM. DETAIL 8/A400.
21. GYP. BD. UNDERSIDE OF WATER HEATER PLATFORM, PAINT P-200. SEE DETAILS ON A411.
22. LINE OF GYP. BOARD SOFFIT @ 11'-8" AFF. PAINT FACE AND UNDERSIDE P-187.
23. LINE OF LANDLORD FACADE AND AWNING STRUCTURE. PROTECT IN PLACE

2-LC09-A102-REV07

1 GENERAL NOTES

A. IT SHALL BE THE G.C.'S RESPONSIBILITY TO UNLOAD INVENTORY AND STORE LIGHTING PACKAGE. THE G.C. SHALL ALSO SHIP ANY EXCESS MATERIALS BACK TO THE ELECTRICAL PACKAGE DISTRIBUTOR.

B. EXIT LIGHTS AT THE STOREFRONT SHALL BE PENDANT MOUNTED AND CENTERED OVER OPENINGS. EXIT/EMERGENCY LIGHTS AT DOOR TO NON-SALES AREAS SHALL BE CEILING MOUNTED AND CENTERED ABOVE DOOR OR OPENING, AT CEILING HEIGHT. IF PLAN LOCATIONS ARE NOT ACCEPTABLE, IMMEDIATELY CONTACT ESSILOR LUXOTTICA PROJECT MANAGER FOR DIRECTION.

C. G.C.'S BID SHALL INCLUDE THE INSTALLATION OF ALL LUMINARIES AND ASSOCIATED LAMPS FURNISHED BY ESSILOR LUXOTTICA. SEE QR CODE ON THIS SHEET FOR LIGHT CUT SHEET AND INSTALLATION INSTRUCTIONS. G.C. IS RESPONSIBLE TO ENSURE THE ADJUSTABILITY OF ALL DIRECTIONAL FIXTURES AFTER INSTALLATION AND SHALL AIM THE FIXTURES PER DIRECTION FROM G.C. LIGHT FIXTURE SPECIFICATIONS MAY VARY, IF THIS IS THE CASE, CONTRACTOR SHALL CALL THE LIGHTING DISTRIBUTOR FOR EXACT SPECIFICATION OF LIGHTING FIXTURES.

D. CEILING GRID SHALL BE CENTERED IN ROOM UNLESS OTHERWISE NOTED. LIGHTING AND ANY CEILING ELEMENT LOCATED WITHIN THE CEILING GRID SHALL BE CENTERED ON THE TILE UNLESS NOTED OTHERWISE.

E. INSTALL ALL NEW LIGHTS AND TRACK AS INDICATED. COORDINATE WITH ELECTRICAL DRAWINGS.

F. INSTALL SUPPLY AND RETURN AIR DIFFUSERS AS INDICATED. COORDINATE WITH MECHANICAL DRAWINGS FOR SPECIFIC TYPES AND INSTALLATION DETAILS. DIFFUSERS TO BE PAINTED TO MATCH SURROUNDING CEILING AREA. SEE KEYNOTE #2 & 17.

G. INSTALL NEW SPRINKLER HEADS THROUGHOUT THE SPACE. COORDINATE WITH FIRE PROTECTION PLAN. FOR CONCEALED HEADS, GC TO ORDER FIRE SPRINKLER CAPS WITH CUSTOM COLOR TO MATCH CEILING COLORS. CODE REQUIRES ORDERING, NOT SELF PAINTING. (TYP.) SEE NOTE ON THIS SHEET ABOUT ORDERING.

H. G.C. TO PROVIDE AND INSTALL FIRE DAMPERS IN DUCTWORK AT ANY DEMISING WALL PENETRATIONS. TYP.

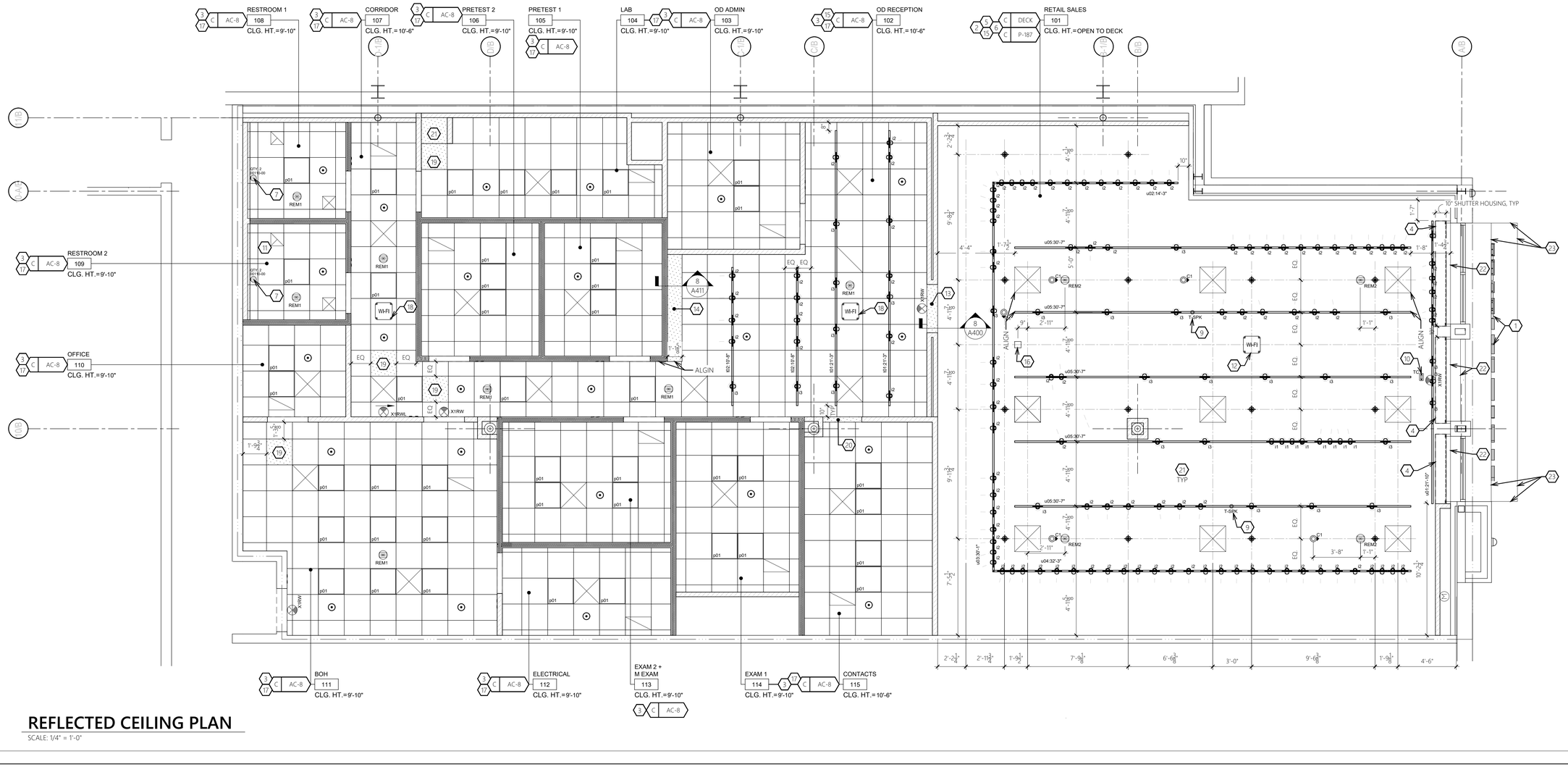
I. ADEQUATE ACCESS PANELS OR DOORS SHALL BE INCORPORATED INTO TENANT WORK FOR INSPECTION SERVICE AND REPLACEMENT OF BOTH LANDLORD AND TENANT EQUIPMENT, COORDINATE PLACEMENT WITH LANDLORD'S ON-SITE REPRESENTATIVE.

1-LC09-A102-REV05

QR CODE
- SPOTTUNE; INSTALLATION MANUAL, CUTSHEETS, INSTALLATION VIDEO
- LIGHTING BOOK; CUTSHEETS, MOUNTING INSTRUCTIONS, VIDEO

QRC-001-REV00

GC IS REQUIRED TO SUBMIT FIRE ALARM & SPRINKLER SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH INSTALLATION, INSTALLATION WITHOUT ARCHITECTS APPROVAL IS SUBJECT TO FULL CORRECTION AT GC'S COST. GC MUST ALSO SUBMITT FOR APPROVAL ANY OTHER ITEM THAT IS ADDED TO THE CEILING OTHER THAN WHAT IS SHOWN ON THIS PLAN. ANY ADDED ITEM MUST BE APPROVED BY THE ARCHITECT BEFORE PROCEEDING. ANY ITEM CONSTRUCTED IN THE CEILING WITHOUT THE ARCHITECTS APPROVAL IS SUBJECT TO FULL CORRECTION AT GC'S COST.



REFLECTED CEILING PLAN

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

DESIGN & CONSTRUCTION MANAGEMENT:

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Seal

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EssilorLuxottica Project Number: 101653

Brand Design Type:
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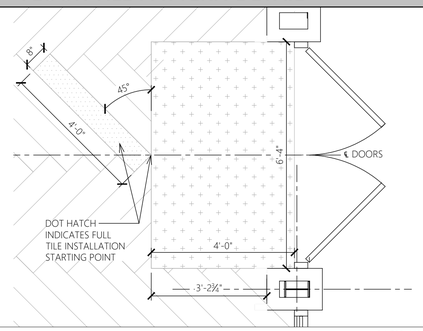
ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
REFLECTED CEILING PLAN

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.:
A102

6 FLOOR TILE PATTERN DETAIL



6-LC09-A103-REV02

5 SLAB CONDITION GENERAL NOTES

MOISTURE TEST:
CONCRETE SUBSTRATES: PREPARE ACCORDING TO ASTM F710.
VERIFY THAT SUBSTRATES ARE DRY AND FREE OF CURING COMPOUNDS, SEALERS, AND HARDENERS.
REMOVE SUBSTRATE COATINGS AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OIL, OR SILICONE, USING MECHANICAL METHODS RECOMMENDED BY FLOORING MANUFACTURER. DO NOT USE SOLVENTS.

ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY RESILIENT SHEET FLOORING MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATE ALKALINITY FALLS WITHIN RANGE ON PH SCALE RECOMMENDED BY MANUFACTURER PER TYPE OF FLOORING.

MOISTURE TESTING: PERFORM TESTS SO THAT EACH TEST AREA DOES NOT EXCEED 300 SQ. FT. AND PERFORM NO FEWER THAN THREE TESTS IN EACH INSTALLATION AREA AND WITH TESTS AREAS EVENLY SPACED IN INSTALLATION AREAS.

ANHYDROUS CALCIUM CHLORIDE TEST: ASTM F1869. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES HAVE MAXIMUM MOISTURE-VAPOR-EMISSION RATE OF 3 LB OF WATER/1000 SQ. FT. (1.36 kg of water/92.9 sq. m) in 24 HOURS.

IF REQUIRED BY MANUFACTURE: RELATIVE HUMIDITY TEST: USING IN-SITU PROVES, ASTM F2170. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES HAVE A MAXIMUM 75 PERCENT RELATIVE HUMIDTY LEVEL MEASUREMENT.

5-LC09-A103-REV02

3 FINISH SYMBOL KEY

F XXXX FLOOR
B XXXX BASE
W XXXX WALL

3-LC09-A103-REV04

4 MATERIAL FIRE RATINGS

MATERIAL	FLAME SPREAD	SMOKE DENSITY
PLASTIC LAMINATE	80 (BONDED)	95 (BONDED)
CARPET	26 - 75	450 OR LESS
VINYL TILE	0.45	450 OR LESS
LAY-IN CEILING	25	10
FRP	150	245
VINYL BASE	0.45	450 OR LESS

4-LC09-A103-REV00

2 KEY NOTES

1. EXISTING STOREFRONT TO REMAIN. SEE STOREFRONT SHEET A300 FOR ADDITIONAL INFORMATION.
2. PAINT WALLS FROM 11'-8" UP TO UNDERSIDE OF DECK P-187.
3. START FULL TILE AT THIS LOCATION. REFER TO DETAIL 6 ON THIS SHEET FOR MORE INFORMATION.
4. GC TO DEMARCATE, WITH CAUTION TAPE ON THE FLOOR, THE REQUIRED CLEARANCE AT THE ELECTRICAL EQUIPMENT. MUST BE 42" CLEAR FROM FACE OF EQUIPMENT & 30" CLEAR SIDE TO SIDE, ABOVE AND BELOW.
5. PAINT WALLS FROM 9'-10" AFF TO FLOOR P-200 (DO NOT NEED TO PAINT BEHIND FULL HEIGHT FIXTURES).
6. INSTALL NEW F.R.P. (FRP-2) TO UNDERSIDE OF CEILING AT THE MOP SINK LOCATION AS INDICATED. ARROWS AND DIMENSION INDICATES EXTENTS (ALL 3 SIDES). CAULK AROUND FRP TO THE WALLS WITH WHITE SILICONE CAULKING. REFER TO FINISH SCHEDULE AND ACCOUNT FOR ANY LEAD TIME ISSUES FOR COLOR SPECIFIC F.R.P.
7. NOT USED.
8. TILE FINISH TO EXTEND TO ALIGN WITH THE TOP OF THE DOOR JAMB. SEE SHEET A210 FOR ELEVATIONS AND TILE DIRECTION. REFER TO FINISH SCHEDULE FOR GROUT INFORMATION.
9. EXISTING SIDEWALK TO CLOSURE LINE TO REMAIN, IF DAMAGED DURING CONSTRUCTION GC TO REPAIR/REPLACE.
10. INSTALLATION PATTERN FOR TF-505 TO BE HERRINGBONE. REFER TO DETAIL '6' ON THIS SHEET.
11. WALL BASE TO EXTEND 2" BACK BEHIND PERIMETER FIXTURES.
12. WALL BASE IS ONLY REQUIRED WHERE SHOWN, WALL BASE IS NOT REQUIRED BEHIND MILLWORK THAT GOES TO THE FLOOR.
13. REFER TO FINISH SCHEDULE FOR GROUT INFORMATION. GC IS RESPONSIBLE FOR COORDINATING THE REQUIRED SEVEN DAYS OF PROTECTION OF THE GROUT. TRADES THAT PRODUCE ANY TYPE OF DUST/DEBRIS CANNOT BE DONE UNLESS THE GROUT IS PROPERLY PROTECTED.
14. SCRUB AND SEAL VINYL FLOORING PRIOR TO TURNOVER. REFER TO MANUFACTURER'S SPECIFICATIONS.
15. PAINT FACE OF THERMOSTAT SENSOR TO MATCH WALL, KEEP SENSOR AREAS CLEAN OF PAINT.
16. INSTALL WALL BASE B-200b AROUND ENTIRE WALL OPENING ON OD RECEPTION SIDE ONLY. SEE ELEVATION 6/A200.

2-LC09-A103-REV07

1 GENERAL NOTES

A. G.C. IS RESPONSIBLE FOR ANY PREPARATION OF THE FLOOR SLAB AND PROCUREMENT OF MATERIALS REQUIRED AT THE ENTRANCE TO PRODUCE A FLUSH CONDITION BETWEEN THE STORE LEASE LINE AND THE EXISTING MALL FLOORING.

B. G.C. IS RESPONSIBLE FOR INSTALLING ALL FINISH FLOORING PER MANUFACTURER'S SPECIFICATIONS. G.C. IS ALSO RESPONSIBLE FOR ALL FINISH MATERIALS BEHIND AND UNDER ALL MILLWORK.

C. REFER TO FINISH SCHEDULE ON SHEET G020 AND SPECIFICATIONS ON SHEET G003-G005.

D. ALL TENANT FURNISHED ITEMS (MATERIAL & LABOR) TO BE SCHEDULED, COORDINATED & SUPERVISED BY G.C.

E. ALLOW (2) WEEKS DRY TIME FOR ALL PAINTED WALLS BEFORE APPLYING GRAPHICS. SEE SPECIFICATIONS FOR SEQUENCING OF PAINTING THE WALLS IN RELATION TO FIXTURE INSTALLATION.

F. REFER TO DOOR SCHEDULE ON SHEET G010 FOR DOOR FINISHES. GC TO PREP EXISTING DOORS PRIOR TO RE-FINISHING.

G. G.C. TO PROVIDE DURABLE FLOOR PROTECTION DURING CONSTRUCTION. PROVIDE WALK-OFF MAT AT BOTH SIDE OF ENTRY POINT(S) OF CONSTRUCTION AREA.

H. REFER TO DETAIL 19/A411 FOR SLAB POUR BACK DETAIL.

I. G.C. TO PERFORM MOISTURE TEST, SEE SLAB CONDITIONS GENERAL NOTE ON THIS SHEET.

J. GC TO PREP CONCRETE FLOOR FOR NEW FLOORING INSTALLATION, CLEAN, SCRAPE, GRIND, PATCH AND REPAIR CONCRETE AS REQUIRED. GC TO VERIFY EXISTING FLOOR CONDITIONS MEETS AND ARE IN COMPLIANCE WITH ANSI STANDARD FOR THIN SET TILE AND THE LATEST EDITION OF TILE COUNCIL OF AMERICA. IF THERE ARE ISSUES OR DEFICIENCIES, CONTACT ESSILOR LUXOTTICA PROJECT MANAGER PRIOR TO INSTALLATION.

K. INSTALL NEW FLOOR TILE AS SHOWN, G.C. TO MAINTAIN 1/8" GROUT JOINT FOR FLOORING. PROVIDE ALL FLOORING TRANSITIONS AS REQUIRED.

L. GC IS RESPONSIBLE FOR COORDINATING FLOOR PROTECTION, AFTER THE GROUT IS INSTALLED, FOR A MINIMUM OF SEVEN DAYS (WHEN USING SPECIFIED LATICRETE SPECTRALOCK PRO PREMIUM) TO ENSURE DUST AND DEBRIS DOES NOT CHANGE THE GROUT COLOR.

M. SEE G020 FOR FLOORING AND WALL BASE TAKE OFF CHART.

N. SEE DETAILS 11 & 12/A411 FOR NEW WALL BASE AND DETAIL 6 & 7/A411 FOR WHEN WALL BASE WRAPS A CORNER.

O. REFER TO REFLECTED CEILING PLAN ON SHEET A102 FOR CEILING AND SOFFIT FINISHES.

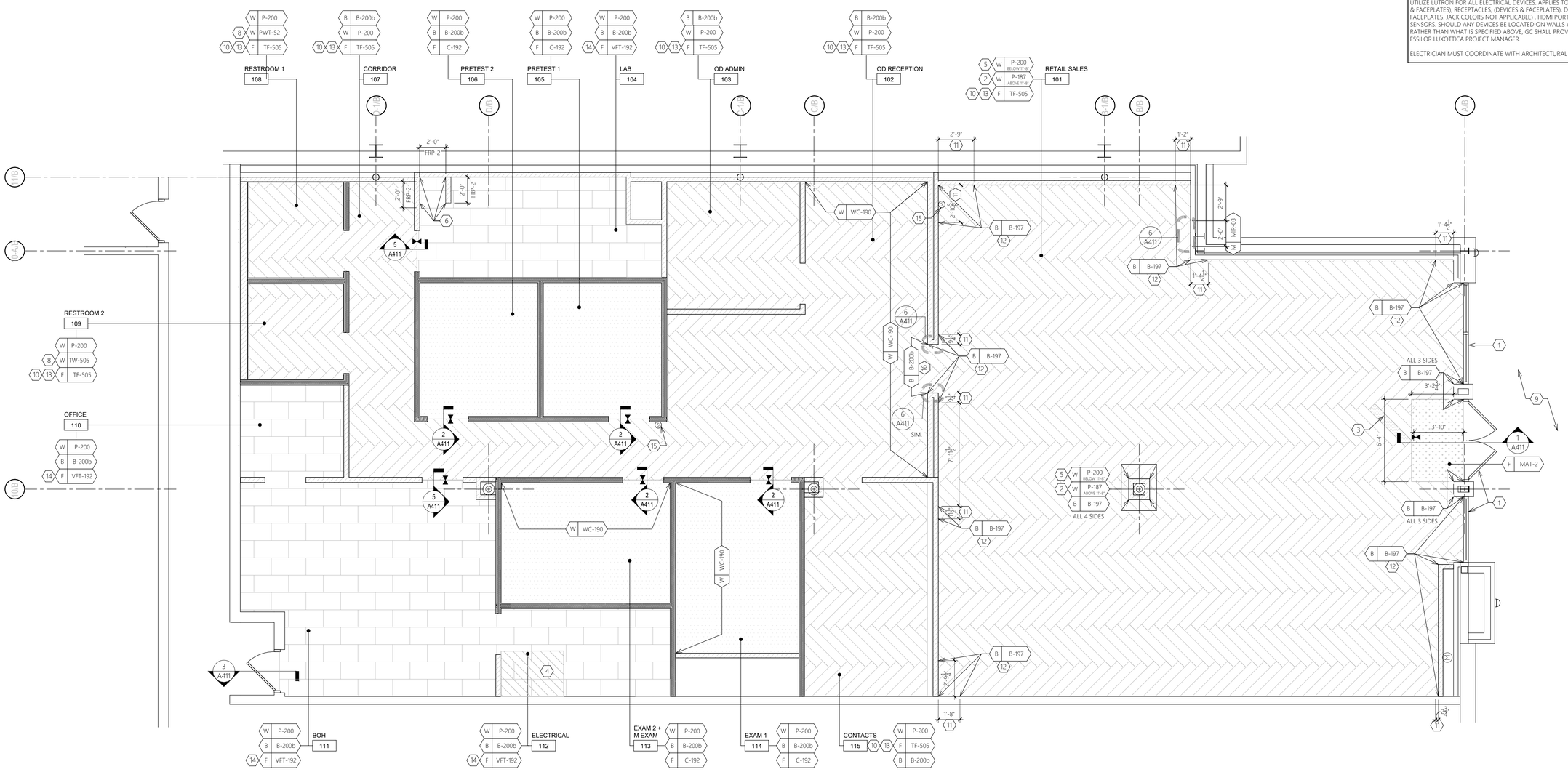
1-LC09-A103-REV05

LC10 ELEC. / DATA FACEPLATE, SWITCHES & PLUGS COLOR SCHEDULE

WALL FINISH	LUTRON DEVICE COLOR	WALL FINISH	LUTRON DEVICE COLOR
P-200	LIGHT ALMOND DESIGNER GLOSS	WC-190	SAND SATIN
P-187	SIENNA ARCHITECTURAL MATTE	WT-505	SAND SATIN

UTILIZE LUTRON FOR ALL ELECTRICAL DEVICES. APPLIES TO SWITCHES, (DEVICES & FACEPLATES), RECEPTACLES, (DEVICES & FACEPLATES), DATA, (INSERTS AND FACEPLATES. JACK COLORS NOT APPLICABLE) , HDMI PORTS AND OCCUPANCY SENSORS. SHOULD ANY DEVICES BE LOCATED ON WALLS WITH OTHER FINISHES RATHER THAN WHAT IS SPECIFIED ABOVE, GC SHALL PROVIDE AN RFI TO THE ESSILOR LUXOTTICA PROJECT MANAGER.

ELECTRICIAN MUST COORDINATE WITH ARCHITECTURAL FINISH PLAN SHEET.



FINISH PLAN

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

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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By

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Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
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EssilorLuxottica Project Number 101653

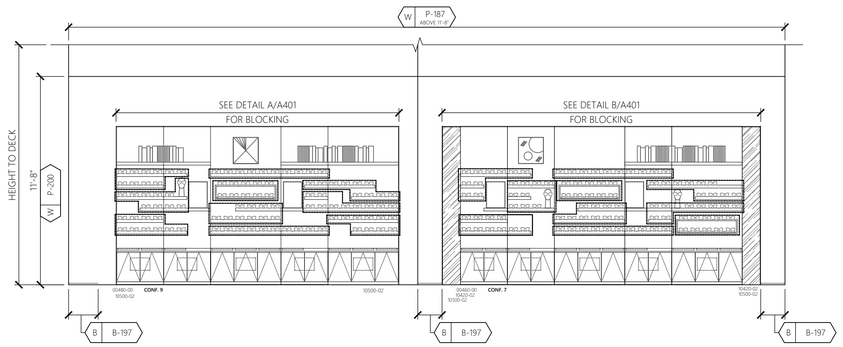
Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
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☐ ADDENDUM

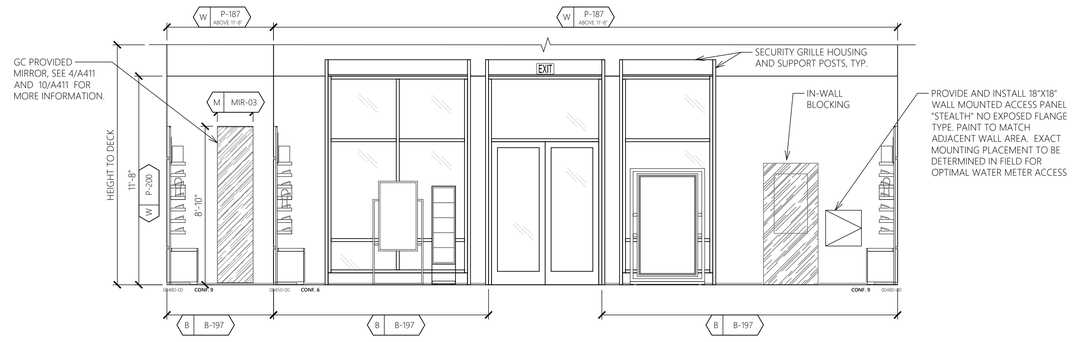
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Date 05/15/2026
Drawn By STAFF
Checked By CM

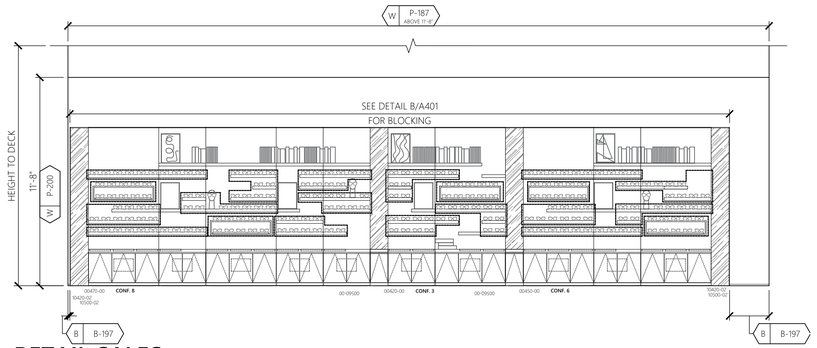
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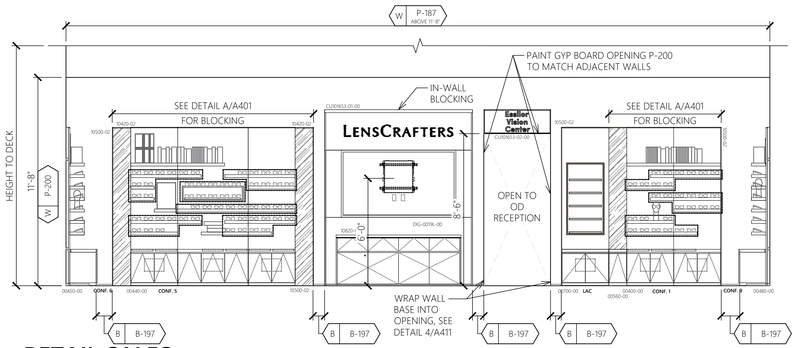
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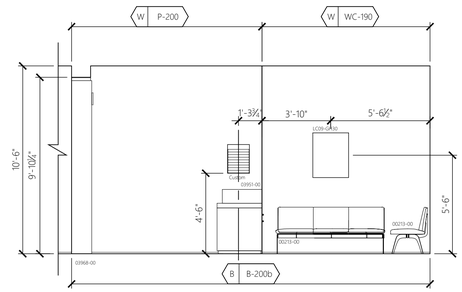
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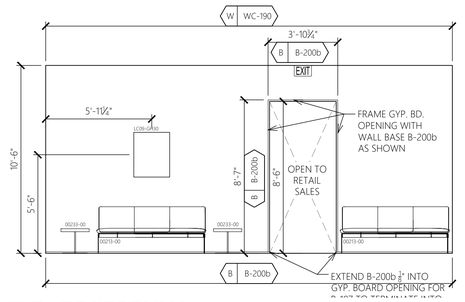
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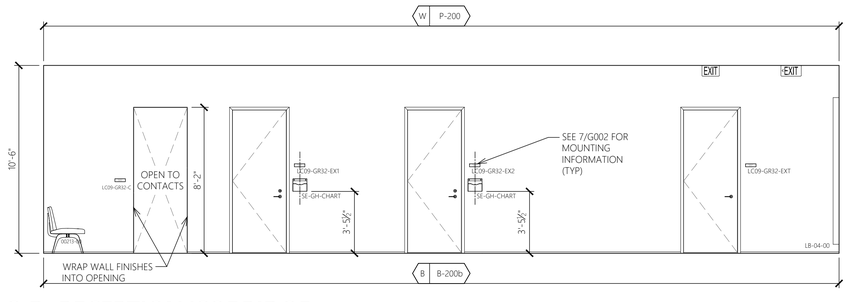
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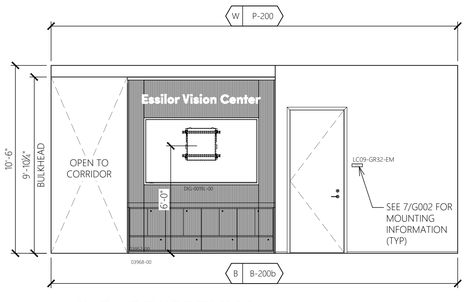
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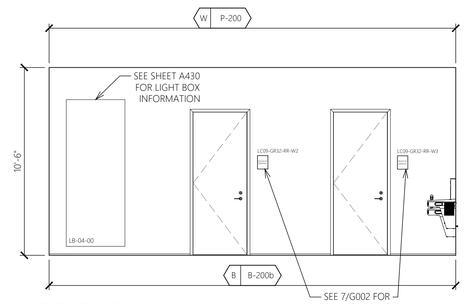
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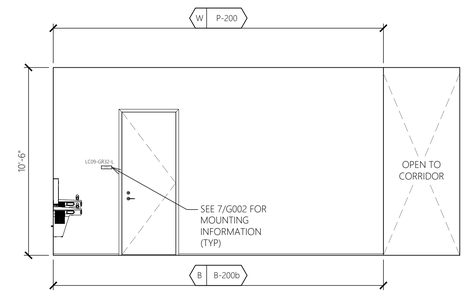
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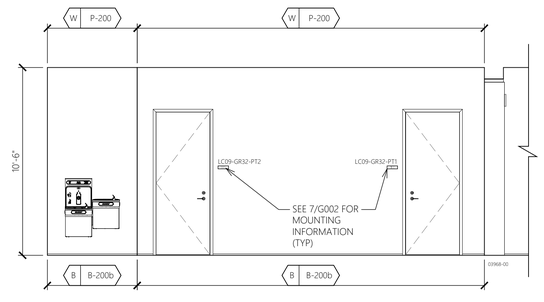
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9 CORRIDOR
SCALE: 1/4" = 1'-0"



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



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

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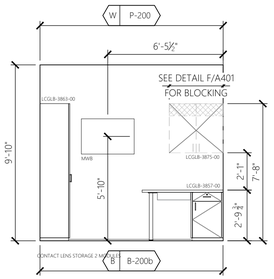
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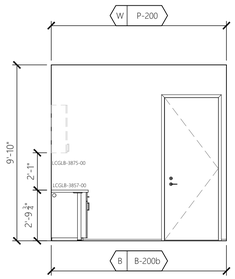
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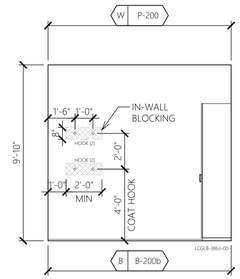
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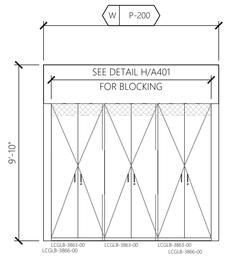
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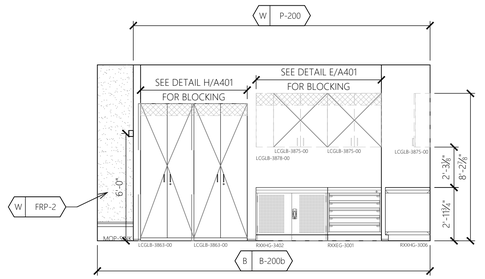
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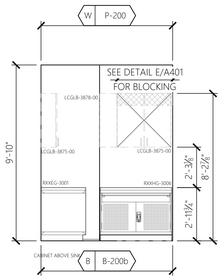
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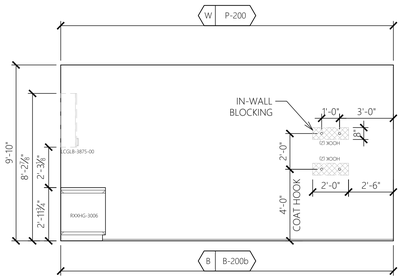
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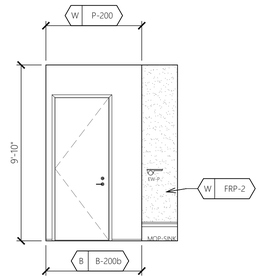
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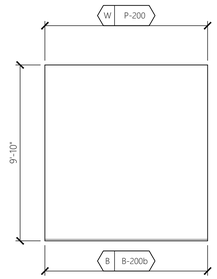
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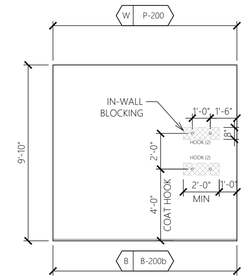
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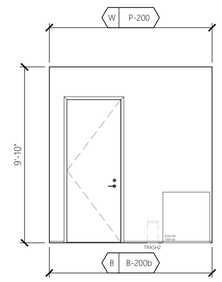
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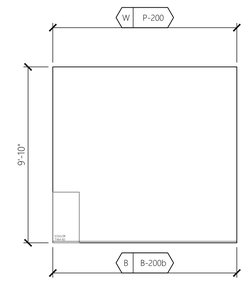
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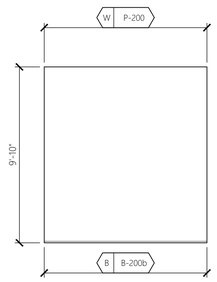
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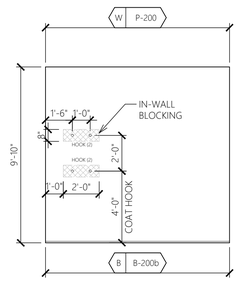
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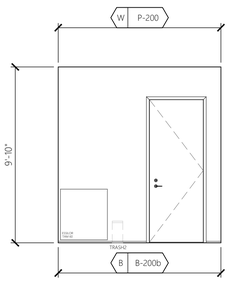
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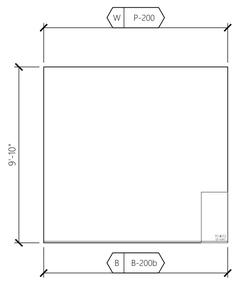
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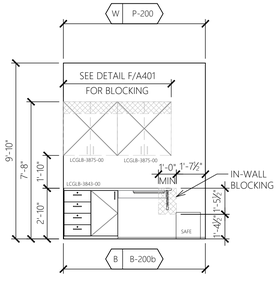
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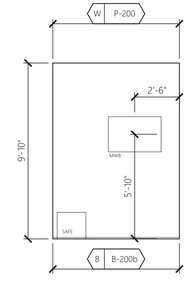
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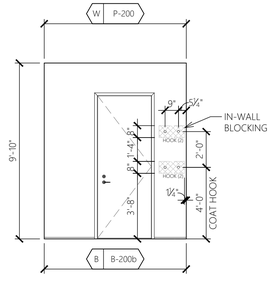
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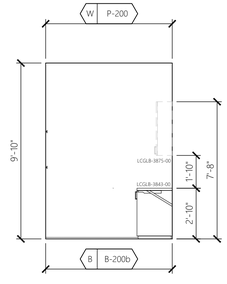
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SCALE: 1/4" = 1'-0"



18 **OFFICE**
SCALE: 1/4" = 1'-0"



19 **OFFICE**
SCALE: 1/4" = 1'-0"



20 **OFFICE**
SCALE: 1/4" = 1'-0"

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Seal

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EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

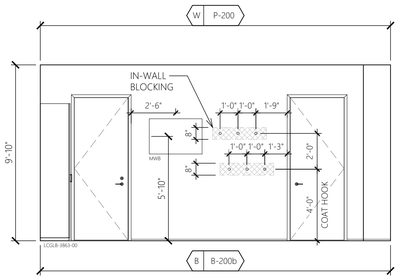
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☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

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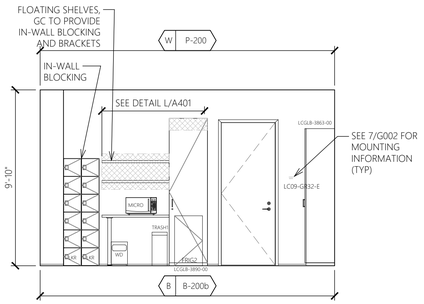
INTERIOR ELEVATIONS

Date 05/15/2026
Drawn By STAFF
Checked By CM

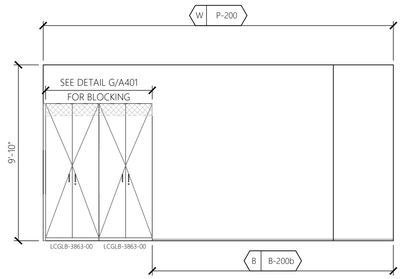
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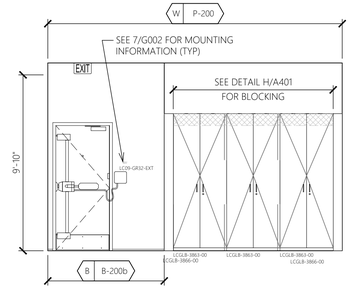
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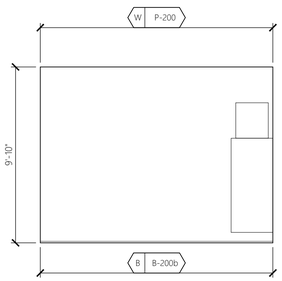
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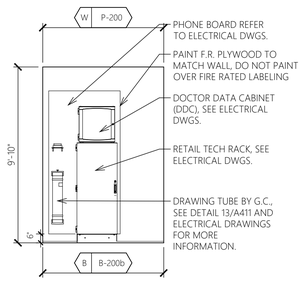
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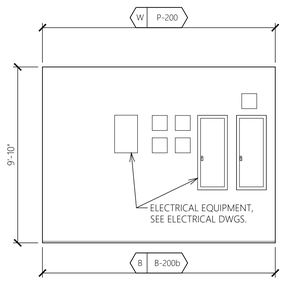
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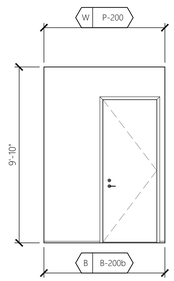
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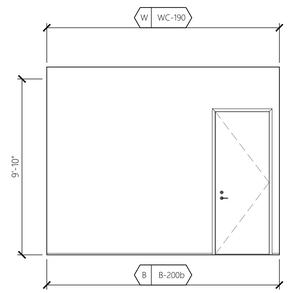
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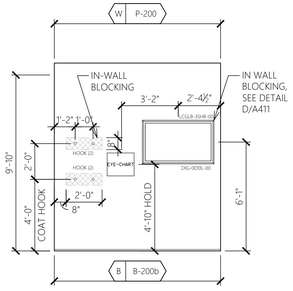
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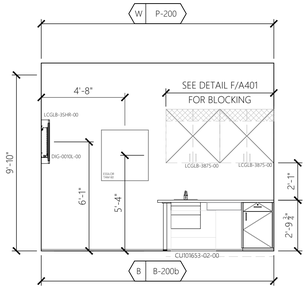
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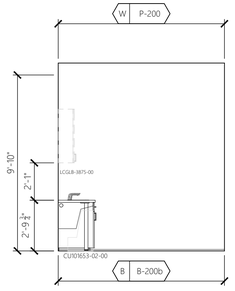
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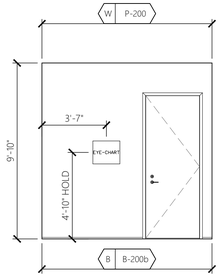
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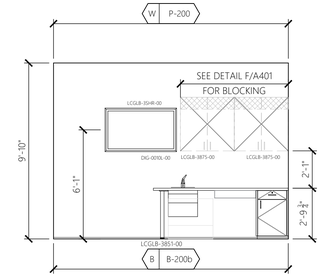
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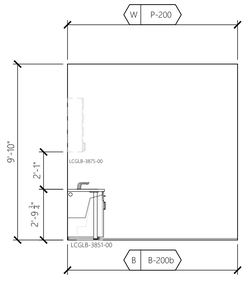
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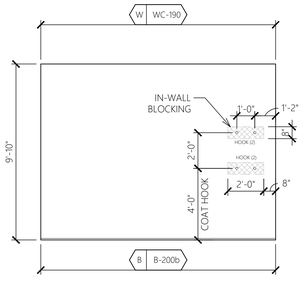
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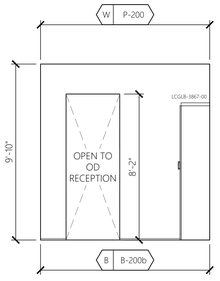
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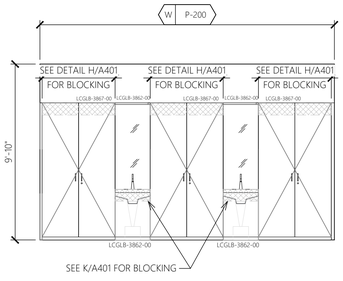
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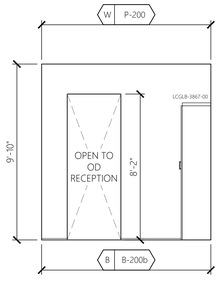
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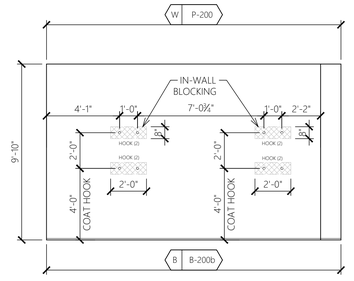
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18 CONTACTS
SCALE: 1/4" = 1'-0"



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



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

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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number: 101653

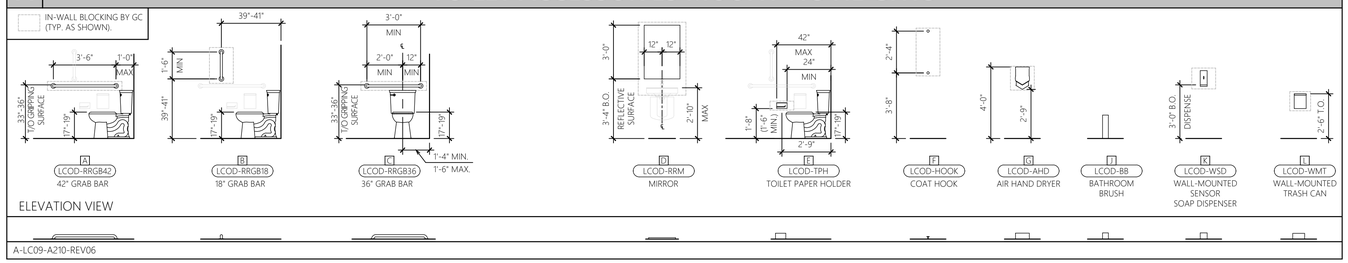
Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
INTERIOR ELEVATIONS

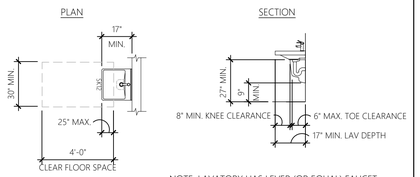
Date: 05/15/2026
Drawn By: STAFF
Checked By: CM
Sheet No.: A202

A TOILET ACCESSORIES MOUNTING HEIGHTS



A-LC09-A210-REV06

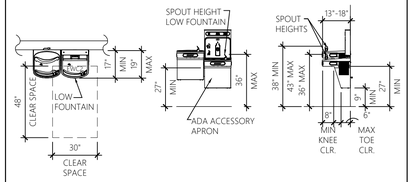
B SINK ACCESSIBILITY CLEARANCES



NOTE: LAVATORY HAS LEVER (OR EQUAL) FAUCET HARDWARE. SEE PLUMBING SHEET. PIPES UNDER THE SINK ARE INSULATED BY GC.

B-LC09-A210-REV05

C DRINKING FOUNTAIN



DRINKING FOUNTAIN PLAN | DRINKING FOUNTAIN FRONT ELEVATION | DRINKING FOUNTAIN SIDE ELEVATION

DRINKING FOUNTAIN NOTES FOR LOW DRINKING FOUNTAIN:

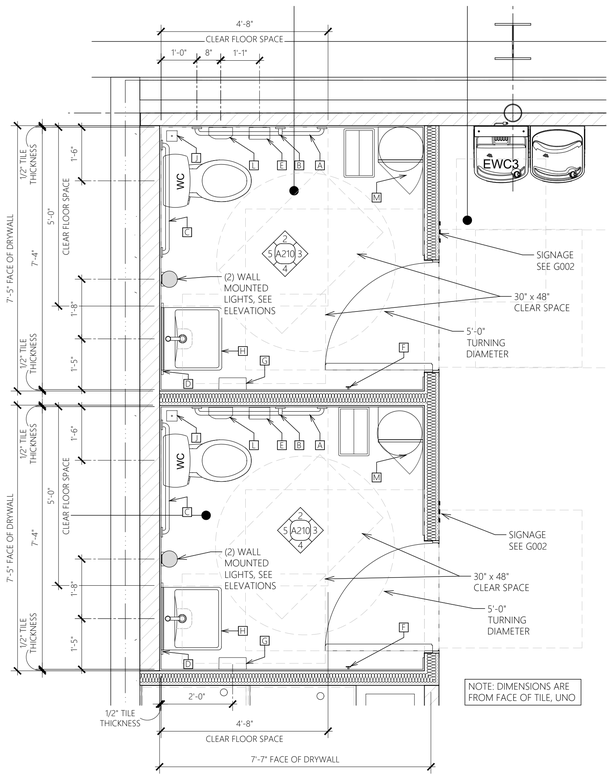
1. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES MIN. IN HEIGHT. THE ANGLE OF THE WATER STREAM FROM SPOUTS WITHIN 3 INCHES OF THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 30 DEGREES MAX. AND FROM SPOUTS BETWEEN 3 INCHES AND 5 INCHES FROM THE FRONT OF THE DRINKING FOUNTAIN SHALL BE 15 DEGREES MAX. MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE DRINKING FOUNTAIN.

2. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. SPOUTS SHALL BE NO HIGHER THAN 36" MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.

3. WALL AND POST MOUNTED CANTILEVERED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FLOOR OR GROUND AT LEAST 27" HIGH, 30" WIDE, AND 17-19" DEEP. SUCH UNITS SHALL HAVE A MINIMUM CLEAR FLOOR SPACE 30" X 48" TO ALLOW A PERSON IN A WHEEL- CHAIR TO APPROACH THE UNIT FACING FORWARD.

4. THE FOLLOWING KNEE CLEARANCE IS REQUIRED UNDERNEATH THE FOUNTAIN: 27" MIN. FROM THE FLOOR TO THE UNDERSIDE OF THE FOUNTAIN WHICH EXTENDS 8" MIN. MEASURED FROM THE FRONT EDGE UNDERNEATH THE FOUNTAIN BACK TOWARDS THE WALL; IF A MIN. 9" OF TOE CLEARANCE IS PROVIDED, A MAX. OF 6" OF THE 48" OF CLEAR FLOOR SPACE REQUIRED AT THE FIXTURE MAY EXTEND INTO THE TOE SPACE.

C-LC09-A210-REV00



1 ENLARGED TOILET ROOM PLAN

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

D TOILET ROOM ACCESSORY SCHEDULE

(#) = QUANTITY

@	CODE	ITEM	DESCRIPTION	ROOM	REMARKS	SUPPLIED	RECEIVED	INSTALLED
A	LCOD-RRGB42	42" GRAB BAR	BOBRICK: B-5806X42.99 (PEENED)	RESTROOM (1)	• GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	GC	GC	GC
B	LCOD-RRGB18	18" GRAB BAR	BOBRICK: B-5806X18.99 (PEENED)	RESTROOM (1)	• GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	GC	GC	GC
C	LCOD-RRGB36	36" GRAB BAR	BOBRICK: B-5806X36.99 (PEENED)	RESTROOM (1)	• GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	GC	GC	GC
D	LCOD-RRM	RESTROOM WALL MIRROR	VENDOR: ABCO SAFETY VENDOR PART #: LEN-2436MIRROR FINISH: STAINLESS STEEL	RESTROOM (1)	• (1) PER RESTROOM • GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	T	GC	GC
E	LCOD-TPH	TOILET PAPER HOLDER	VENDOR: DELTA ARTICLE #: 3042094; VENDOR PART #: 79956-SS FINISH: STAINLESS STEEL	RESTROOM (1)	• (1) PER RESTROOM • GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	T	GC	GC
F	LCOD-HOOK	COAT HOOK ROUND WALL-MOUNTED HOOKS	VENDOR: NA ARTICLE #: 3042090; VENDOR PART #: 3524806 FINISH: MATTE STAINLESS STEEL	RESTROOM (2)	• INSTALL (1) @ 44" A.F.F. & (1) @ 72" A.F.F. • ROUND HOOK ONLY (INSTALL WITHOUT PROVIDED BACKPLATE) • GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	T	GC	GC
G	LCOD-AHD	AIR HAND DRYER	VENDOR: DYSON ARTICLE #: 3042088; VENDOR PART #: 307174-01 FINISH: SPRAYED NICKEL	RESTROOM (1)	• (1) PER RESTROOM • GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	T	GC	GC
H	SK12	FAUCET	SEE PLUMBING PLANS FOR SPECIFICATIONS	RESTROOM (1)	• (1) PER SINK	GC	GC	GC
		SINK	SEE PLUMBING PLANS FOR SPECIFICATIONS	RESTROOM (1)	• (1) PER RESTROOM • GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	GC	GC	GC
J	LCOD-BB	BATHROOM BRUSH	VENDOR: NEMESIA ARTICLE #: 3042096; VENDOR PART #: LEN-NNE330313 FINISH: STAINLESS STEEL	RESTROOM (1)	• (1) PER RESTROOM • FREE-STANDING	T	GC	GC
K	LCOD-WSD	WALL-MOUNTED SENSOR SOAP DISPENSER	VENDOR: BRADLEY ARTICLE #: 3042086; VENDOR PART #: 6A00-110000 FINISH: STAINLESS STEEL	RESTROOM (1)	• (1) PER RESTROOM • GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	T	GC	GC
L	LCOD-WMT	WALL-MOUNTED TRASH CAN	VENDOR: BRADLEY ARTICLE #: 3041932; VENDOR PART #: 4A10-11 FINISH: STAINLESS STEEL	RESTROOM (1)	• (1) PER RESTROOM • GC TO PROVIDE & INSTALLS IN-WALL BLOCKING*	T	GC	GC
M	LCOD-RRS	STOOL	TRUEDESIGN MODEL: TD1000	RESTROOM (1)	• (1) PER RESTROOM	T	GC	GC

'LCOD' PREFIX IS NOT REFLECTED ON PLANS.
*SEE DETAILS ON THIS SHEET

D-LC09-A210-REV5

E GRAB BAR DETAIL

ANCHOR PLATES ARE 12 GAUGE STEEL AND 6" WIDE (LENGTH VARIES). FURNISHED WITH STAINLESS STEEL MACHINE SCREWS TO ACCOMMODATE WALL FINISHES TO 1 1/2" THICK. ANCHOR PLATES SECURED TO STUDS BY WELDING, WIRING OR SELF THREADING SCREWS.

GRAB BARS
LOCATE GRAB BARS AS NOTED IN RESTROOM ELEVATIONS

THE DIAMETER OR WIDTH OF THE GRIPPING SURFACE IS REQUIRED TO BE 1 1/4" TO 1 1/2" 32 MM - 38 MM, OR THE SHAPE IS TO PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS IS TO BE 1 1/2" 38 MM.

GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

GRAB BARS AND ANY SURFACE ADJACENT TO THEM CAN NOT HAVE ANY SHARP OR ABRASIVE ELEMENTS. EDGES ARE TO HAVE A MINIMUM RADIUS OF 1/8 INCH.

BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAX. BENDING MOMENT FROM THE APPLICATION OF A 250 LB. POINT LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.

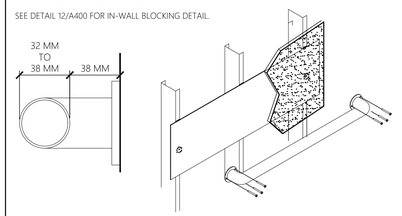
SHEAR STRESS INDUCED IN A GRAB BAR BY THE APPLICATION OF 250 LBF POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SEAR STRESS.

SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250 LB. POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER HAS THE SMALLER ALLOWABLE LOAD.

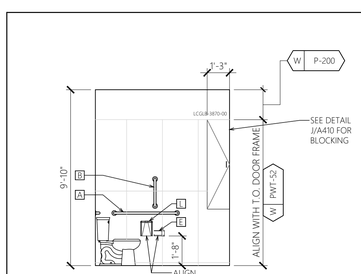
TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250 LB. POINT LOAD, PLUS THE MAX. MOMENT FROM THE APPLICATION OF A 250 LB. POINT LOAD, SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.

GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

SEE DETAIL 12/A400 FOR IN-WALL BLOCKING DETAIL.

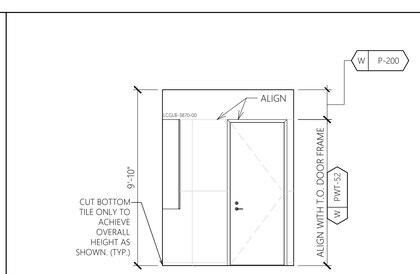


E-LC09-A210-REV02



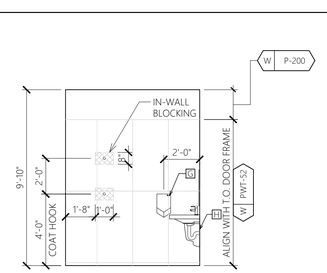
2 TOILET ROOM ELEVATION

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



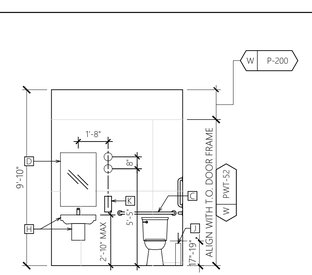
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SCALE: 1/4" = 1'-0"



4 TOILET ROOM ELEVATION

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

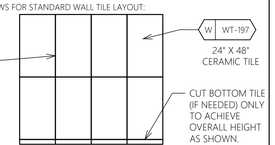


5 TOILET ROOM ELEVATION

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

F GENERAL NOTES

A. ANY EXPOSED PLUMBING SHALL BE WRAPPED w/ HANDICAPPED APPROVED WHITE VINYL DRAIN COVERS SUPPLIED AND INSTALLED BY G.C.
B. PROVIDE NON-COMBUSTIBLE FRT IN WALL BLOCKING, IN ALL LOCATIONS OF EQUIPMENT AND ACCESSORIES REQUIRED TO BE WALL MOUNTED.
C. REFER TO ACCESSIBLE ACCESSORY INSTALLATION DIAGRAMS THIS PAGE FOR ALL TOILET ROOM ACCESSORY INSTALLATION.
D. G.C. TO PROVIDE SILICONE SEALANT JOINT AROUND ALL RESTROOM FIXTURES.
E. WALL TILE PATTERN CONTINUES IN SAME DIRECTION AS FLOORING (ON ALL RESTROOM WALLS) MATCHING GROUT LINES, GC TO COORDINATE IN FIELD.
F. REFERENCE IMAGE AS FOLLOWS FOR STANDARD WALL TILE LAYOUT:



F-LC09-A210-REV05

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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
△		
△		
△		
△		
△		
△		

Architect of Record

CORTLAND MORGAN ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
PH: (817) 635-5696
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Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

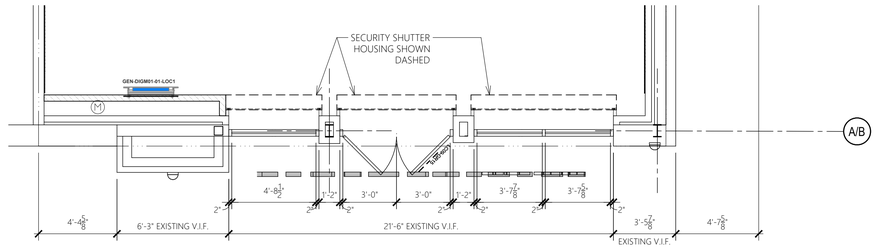
EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

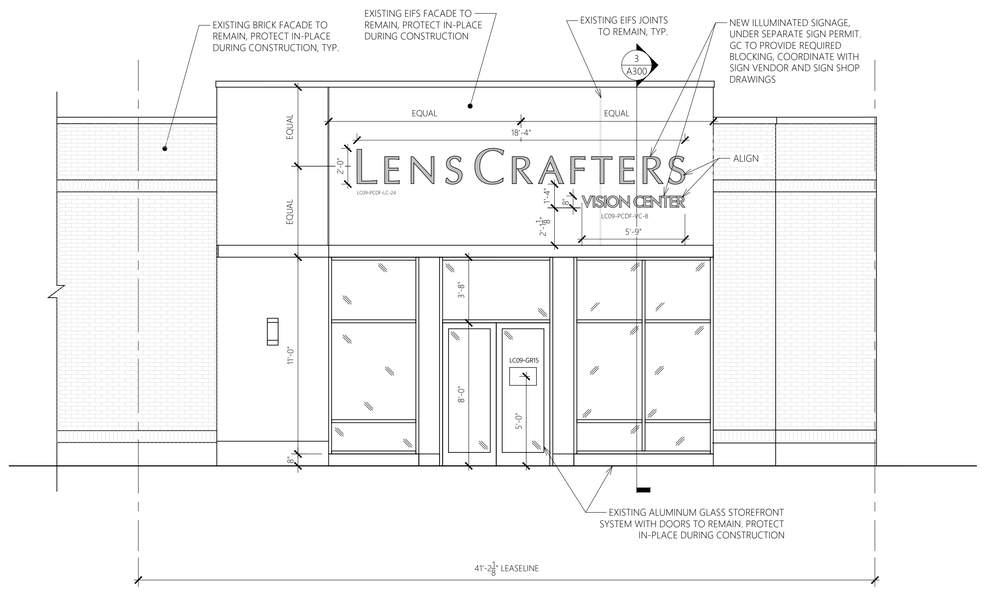
Sheet Name:
TOILET ROOM PLAN, ELEVATIONS & DETAILS

Date 05/15/2026
Drawn By STAFF
Checked By CM
Sheet No.: A210



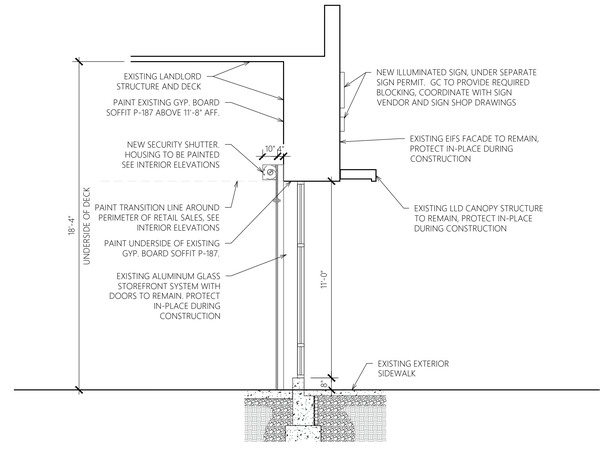
1 ENLARGED STOREFRONT PLAN

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



2 STOREFRONT ELEVATION

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



3 STOREFRONT SECTION

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

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
BRUNSWICK SQUARE MALL
755 NJ-18
SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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CORTLAND MORGAN
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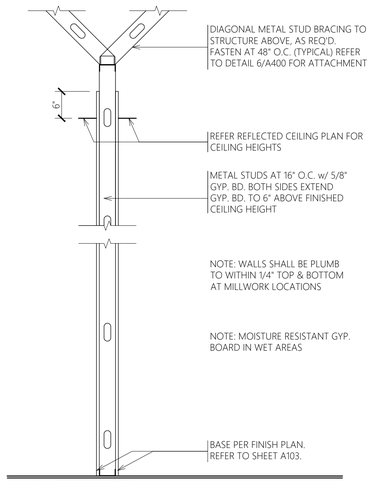
Sheet Name: STOREFRONT PLAN, ELEVATIONS & SECTION

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.: A300

WALL TYPES GENERAL NOTES, APPLIES TO ALL WALL TYPES:

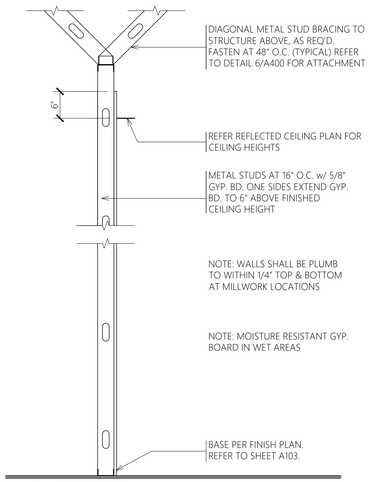
1. WHERE TW-505 IS INSTALLED, 1/2" USG DURAROCK SUBSTRATE TO BE USED IN PLACE OF 5/8" GYP. BD.



1 = 3 5/8" STUD 20 GA
1A = 6" STUD 20GA
1B = 1 5/8" STUD 20 GA
1C = 2 1/2" STUD 20 GA
* = ADD SOUND BATT INSULATION

ATTACH TRACK TO SLAB. SEE DETAIL 7/A400.

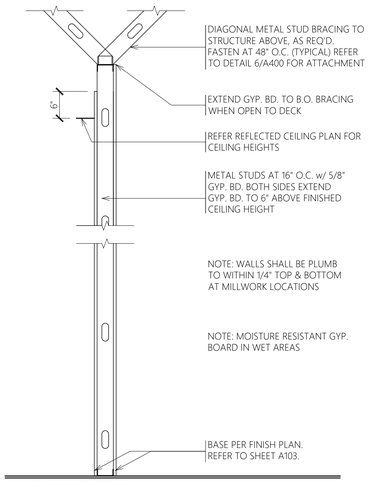
1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 = 3 5/8" STUD 20GA
2A = 6" STUD 20GA
2B = 1 5/8" STUD 20GA
2C = 2 1/2" STUD 20GA
* = ADD SOUND BATT INSULATION

ATTACH TRACK TO SLAB. SEE DETAIL 7/A400.

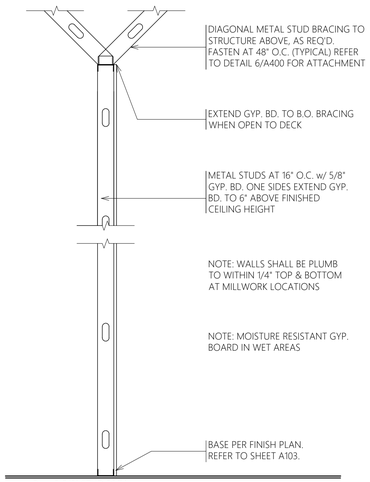
2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 = 3 5/8" STUD 20 GA
1A = 6" STUD 20GA
1B = 1 5/8" STUD 20 GA
1C = 2 1/2" STUD 20 GA
* = ADD SOUND BATT INSULATION

ATTACH TRACK TO SLAB. SEE DETAIL 7/A400.

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

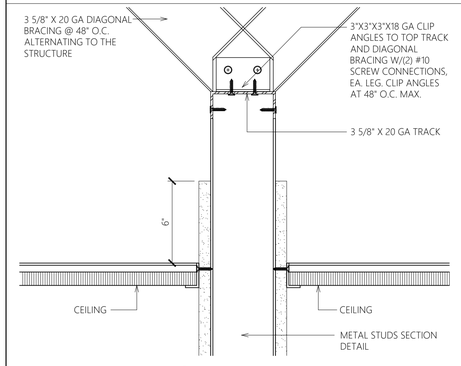


2 = 3 5/8" STUD 20GA
2A = 6" STUD 20GA
2B = 1 5/8" STUD 20GA
2C = 2 1/2" STUD 20GA
* = ADD SOUND BATT INSULATION

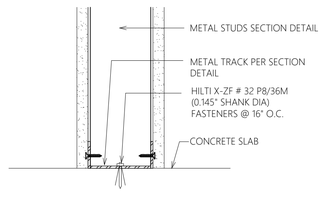
ATTACH TRACK TO SLAB. SEE DETAIL 7/A400.

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

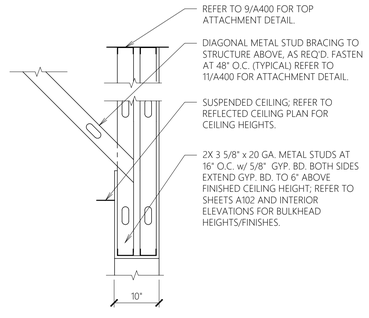
5 NOT USED
SCALE: 3/4" = 1'-0"



6 WALL BRACE DETAIL
SCALE: 3" = 1'-0"

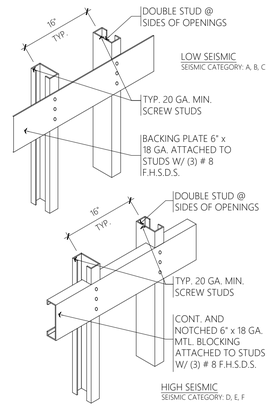


7 TRACK TO SLAB DETAIL
SCALE: 3" = 1'-0"



8 DROPPED SUPPORT DETAIL
SCALE: 3/4" = 1'-0"

1. SEE TYPICAL WALL FRAMING FOR GAUGE OF STUDS, VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE, AND NUMBER
2. REQ'D WITH ACCESSORY MANUFACTURERS. USE #12 SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BACKING PLATE.
3. WALL STUD FLANGES ARE CONTINUOUS AT BACKING PLATE.
4. BACKING PLATES FOR UPPER WALL HUNG CABINETS (UP TO 2 SHELVES) BASE CABINETS, FULL HEIGHT CABINETS, HANDRAILS, GUARDRAILS, GRAB BARS, WALL HUNG EQUIPTMENT - 250 LBS./FT.



12 IN-WALL BLOCKING DETAIL
SCALE: 3/4" = 1'-0"

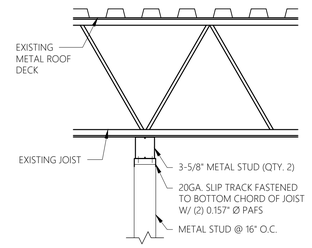
Based on Clark Dietrick PROSTUDS 5psf L/360 Their designation is PDS instead of S.

Metal Stud Size Schedule

SIZE	DESIGNATION	@ 16" O.C.	@ 24" O.C.
		SEE NOTES	
INTERIOR, NON-LOAD BEARING, AND FURRING STUDS			
1 5/8"	162S125-18	9'-6"	8'-3"
2 1/2"	250S125-18	12'-0"	10'-9"
	250S125-30	12'-2"	10'-6"
3 5/8"	362S125-18	14'-6"	13'-0"
	362S125-30	16'-2"	14'-0"
4"	400S125-18	15'-0"	13'-6"
	400S125-30	16'-6"	15'-0"
6"	600S125-18	20'-4"	15'-0"
	600S125-30	23'-0"	20'-0"

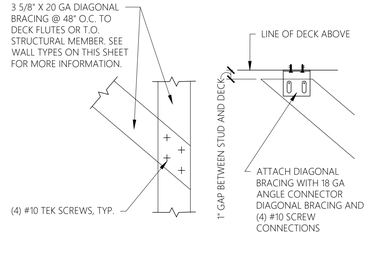
MILLS / GAUGE CONVERSION	
Mills	Gauge
18	25
27	22
33	20
43	18
54	16
68	14

1. HEIGHTS LISTED ARE MAXIMUM UNBRACED HEIGHT. CONFIRM STUD SIZES, LOADS, AND SPANS WITH STUD MANUFACTURER.
2. EXTERIOR AND LOAD BEARING STUDS SHALL BE STRUCTURAL STUDS ONLY AND VERIFIED WITH STRUCTURAL DRAWINGS WHEN APPLICABLE.
3. "EQUIVALENT" STUDS MAY BE SUBSTITUTED FOR INTERIOR AND NON-LOAD BEARING STUDS.
4. RUNNER/TRACK GAUGES TO MATCH STUD GAUGE.
5. WALLS OVER 12'-0" HIGH TO BE LATERALLY BRACED @ 8'-0" VERTICAL WITH 1 1/2", 16 GA. COLD ROLLED CHANNELS CLIP ANCHORED TO METAL STUDS.



9 TRACK TO JOIST DETAIL
SCALE: 3/4" = 1'-0"

10 NOT USED
SCALE: 3" = 1'-0"



11 BRACING ATTACHMENT DETAILS
SCALE: 3" = 1'-0"

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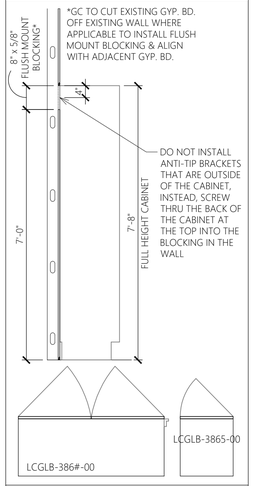
Brand Design Type:
LC10

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☐ 100% PRELIM ☒ CONSTRUCTION
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☐ ADDENDUM

Sheet Name:
SECTIONS & DETAILS

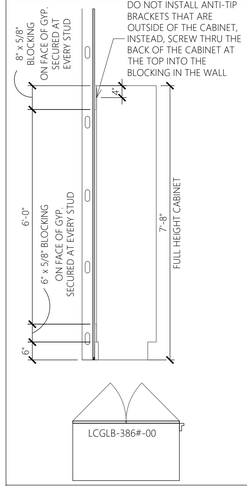
Date 05/15/2026
Drawn By STAFF
Checked By CM
Sheet No.: A400

H BLOCKING DETAIL



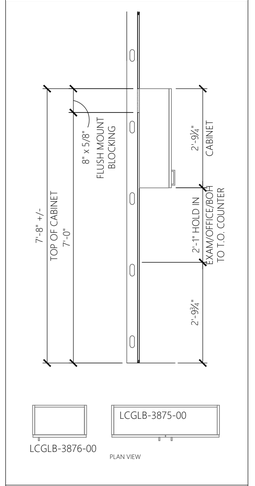
H-LC09-A401-REV06

G BLOCKING DETAIL



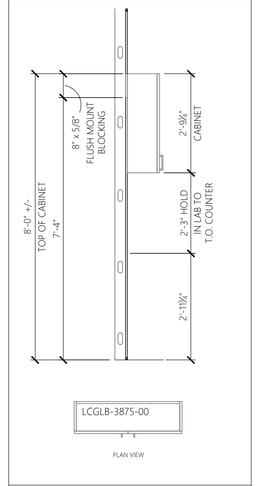
G-LC09-A401-REV05

F BLOCKING DETAIL



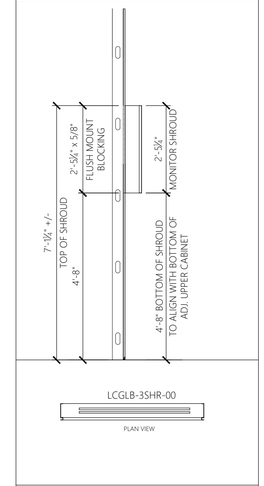
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E BLOCKING DETAIL



E-LC09-A401-REV05

D BLOCKING DETAIL

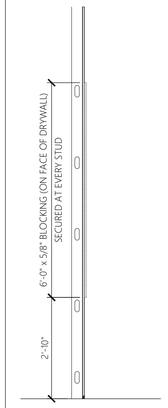


D-LC09-A401-REV05

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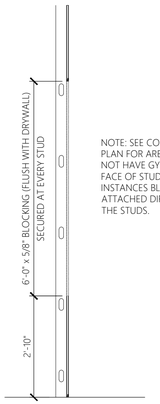
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B BLOCKING DETAIL



B-LC09-A401-REV05

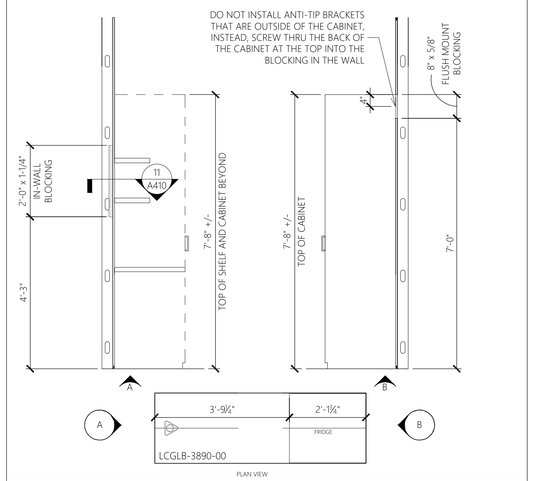
A BLOCKING DETAIL



NOTE: SEE CONSTRUCTION PLAN FOR AREAS THAT WILL NOT HAVE GYP. BD. ON FACE OF STUDS, IN THESE INSTANCES BLOCKING GETS ATTACHED DIRECTLY TO THE STUDS.

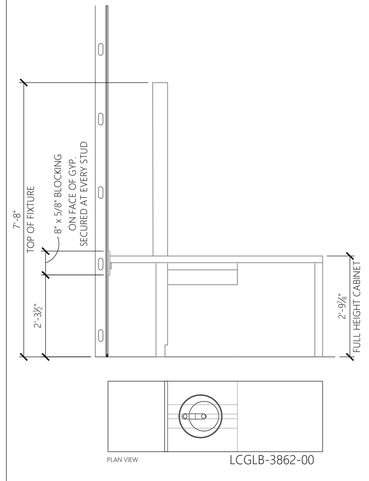
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L BLOCKING DETAIL



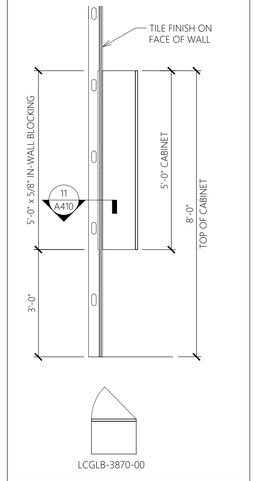
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K BLOCKING DETAIL



K-LC09-A401-REV0

J BLOCKING DETAIL

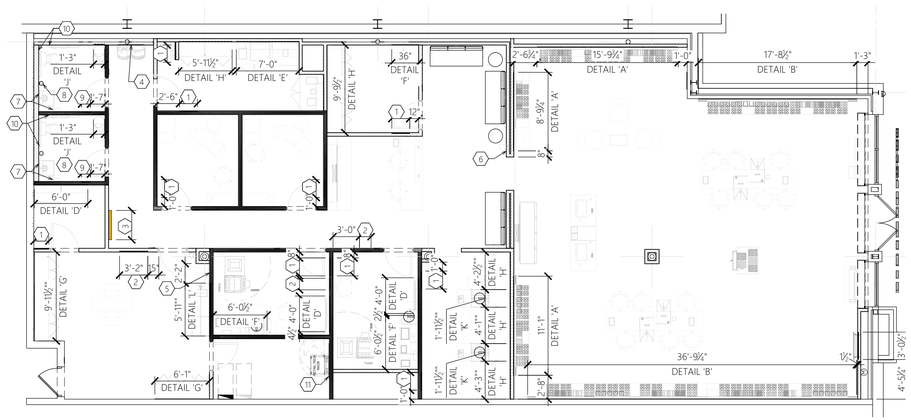


J-LC09-A401-REV0

2 KEY NOTES

1. 2'-0" MIN. IN-WALL BLOCKING, SEE DETAIL 11/A410 AND INTERIOR ELEVATIONS
2. IN-WALL BLOCKING, SEE DETAIL 11/A410 AND INTERIOR ELEVATIONS
3. REFER TO SHEET A430 FOR LIGHT BOX BLOCKING DETAILS.
4. IN-WALL BLOCKING AS NEEDED FOR DRINKING FOUNTAIN INSTALLATION, SEE DETAIL 11/A410 AND COORDINATE WITH MANUFACTURER INSTALLATION DETAILS. SEE SHEET A210
5. IN-WALL BLOCKING AS NEEDED FOR LOCKER INSTALLATION, SEE DETAIL 11/A410 AND COORDINATE WITH MANUFACTURER INSTALLATION DETAILS.
6. IN-WALL BLOCKING AS NEEDED FOR FIRE EXTINGUISHER CABINET INSTALLATION, SEE DETAIL 11/A410 AND COORDINATE WITH MANUFACTURER INSTALLATION DETAILS. SEE SHEET LS100
7. IN-WALL BLOCKING AS NEEDED FOR SINK AND HAND DRYER INSTALLATION, SEE DETAIL 11/A410 AND COORDINATE WITH MANUFACTURER INSTALLATION DETAILS. SEE SHEET A210
8. IN-WALL BLOCKING AS NEEDED FOR WALL SCONCE INSTALLATION. SEE DETAIL 11/A410 AND COORDINATE WITH MANUFACTURER INSTALLATION DETAILS. SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND ELECTRICAL SHEETS FOR MORE INFORMATION.
9. 1'-0" MIN. IN-WALL BLOCKING, SEE DETAIL 11/A410 AND INTERIOR ELEVATIONS
10. IN-WALL BLOCKING AS NEEDED FOR GRAB BAR INSTALLATION, SEE SHEET A210
11. PLYWOOD FOR TECH RACK, SEE ELECTRICAL DRAWINGS

1 BLOCKING PLAN



2-LC09-A401-REV0

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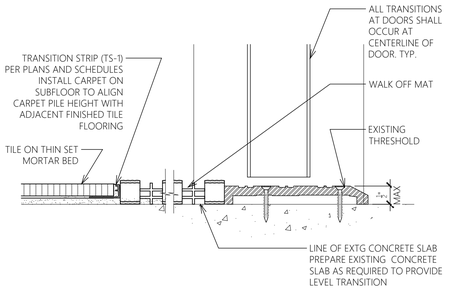
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Sheet Name: BLOCKING DETAILS

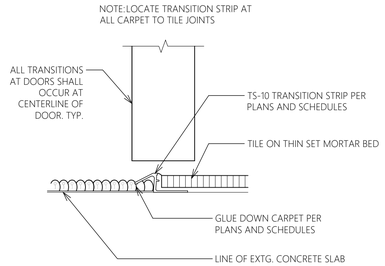
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Drawn By STAFF
Checked By CM

Sheet No.: A401



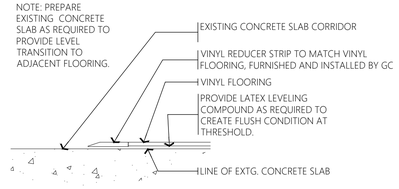
1 FLOOR TRANSITION DETAIL

SCALE: 6" = 1'-0" CONCRETE TO WALK OFF MAT TO TILE



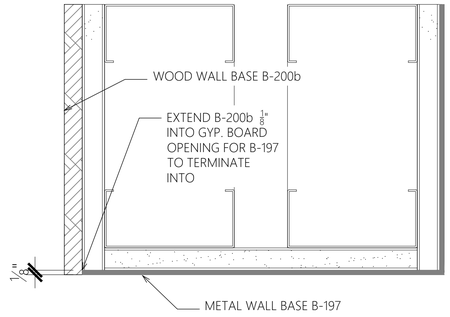
2 FLOOR TRANSITION DETAIL

SCALE: 6" = 1'-0" CARPET TO TILE



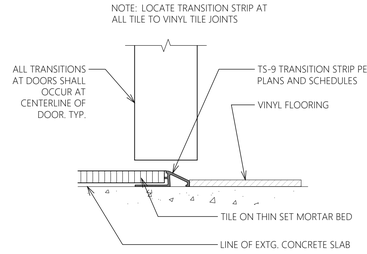
3 FLOOR TRANSITION DETAIL

SCALE: 6" = 1'-0" CONCRETE TO TILE



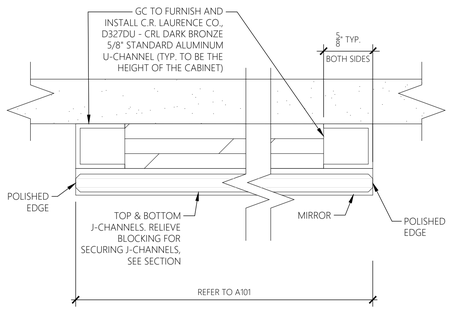
4 MDF TO METAL BASE TRANSITION @ SALES/OD OPENING

SCALE: 6" = 1'-0"



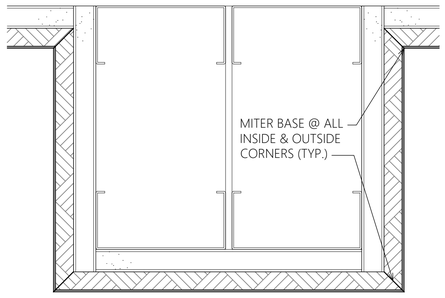
5 FLOOR TRANSITION DETAIL

SCALE: 6" = 1'-0" TILE TO VINYL OR CONCRETE



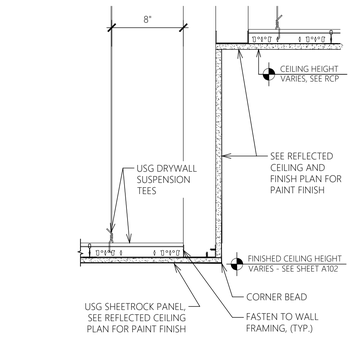
4 MIRROR DETAIL

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



7 MDF BASE @ INSIDE / OUTSIDE CORNERS

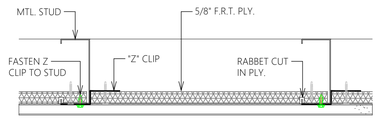
SCALE: 6" = 1'-0"



8 SOFFIT DETAIL

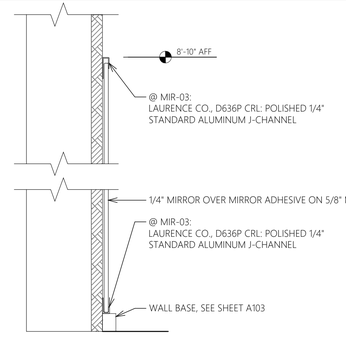
SCALE: 1-1/2" = 1'-0"

ARCH TIP: REFERENCED ON B/A101



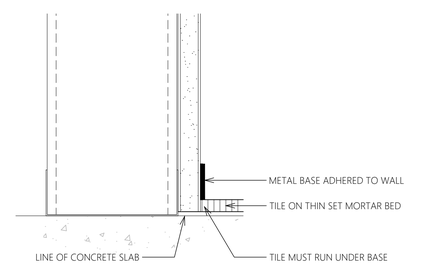
9 BLOCKING PLAN DETAIL

SCALE: 3" = 1'-0"



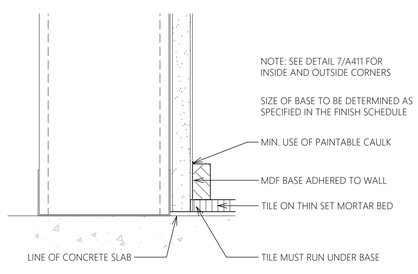
10 DETAIL @ PERIMETER WALL FULL LENGTH MIRROR

SCALE: 3" = 1'-0"



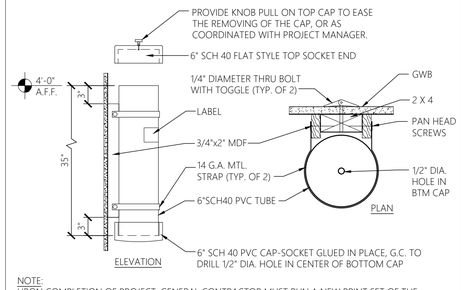
11 METAL WALL BASE DETAIL

SCALE: 6" = 1'-0"



12 MDF WALL BASE DETAIL

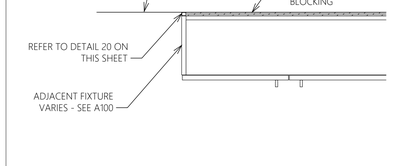
SCALE: 6" = 1'-0"



NOTE:
UPON COMPLETION OF PROJECT, GENERAL CONTRACTOR MUST RUN A NEW PRINT SET OF THE AS-BUILT STORE DRAWINGS (ALL APPLICABLE TRADES) AND PLACE PRINTS INTO THE PLAN TUBE HOLDER. LABEL (W/ CLEAR TAPE) STATING: "THIS TUBE CONTAINS STORE DRAWINGS AND IS NOT TO BE REMOVED WITHOUT THE CONSENT OF THE STORE MANAGER". TENANT G.C. TO SUPPLY AND INSTALL DRAWING TUBE ASSEMBLY WHERE INDICATED ON PLANS OR AS DIRECTED BY THE PROJECT MANAGER

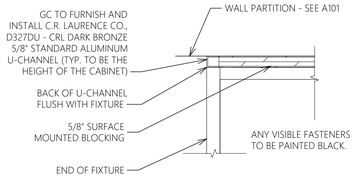
13 DRAWING TUBE STORAGE DETAIL

SCALE: 1" = 1'-0"



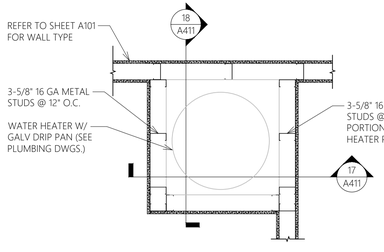
14 END PANEL FIXTURE

SCALE: 1" = 1'-0"



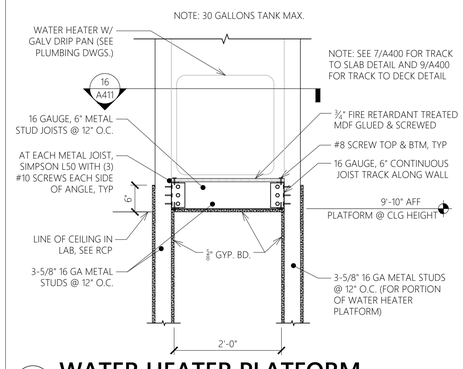
15 END PANEL FIXTURE

SCALE: 3" = 1'-0"



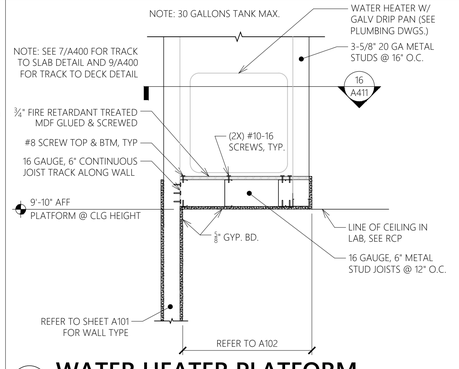
16 WATER HEATER PLATFORM

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



17 WATER HEATER PLATFORM

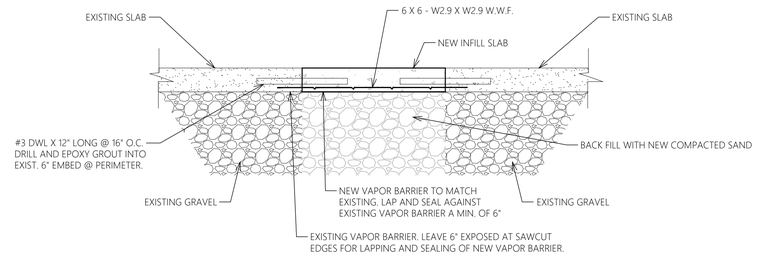
SCALE: 3/4" = 1'-0"



18 WATER HEATER PLATFORM

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

NOTES:
1. GC TO PROVIDE PHOTOS TO PM BEFORE POUR BACK.
2. ANY NEW PIPING TO BE 2" MIN. BELOW SLAB.



19 SLAB ON GRADE POUR BACK DETAIL

NOT TO SCALE

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
BRUNSWICK SQUARE MALL
755 NJ-18
SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
△		
△		
△		
△		
△		
△		

Architect of Record

CORTLAND MORGAN ARCHITECT
711 N. FIELDER RD.
ARLINGTON, TX 76012
PH: (817) 635-5696
FAX: (817) 635-5699

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

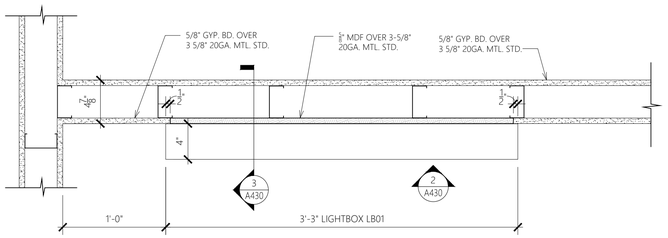
Brand Design Type: LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

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SECTIONS & DETAILS

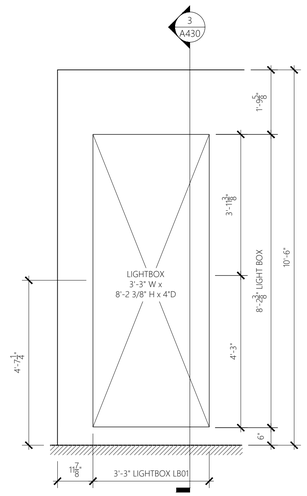
Date 05/15/2026
Drawn By STAFF
Checked By CM
Sheet No.: A411

LIGHTBOX SCHEDULE				
CODE	DIMENSIONS (mm)	DIMENSIONS (inch)	LOCATION	PROVIDED BY L. BOX VENDOR?
LB01	1000W x 2500H	39W x 98.4H	OD CORRIDOR	YES



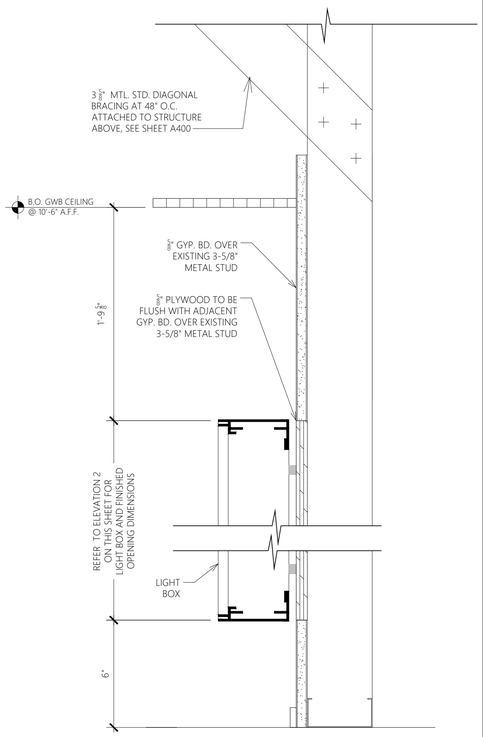
1 LB01 LIGHT BOX ENLARGED PLAN

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



2 LB01 LIGHT BOX ELEVATION

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



3 LB01 LIGHT BOX SIDE SECTION

SCALE: 3" = 1'-0"

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
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STORE #1323
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LENSCRAFTERS
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Revisions:

Mark	Date	By
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CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

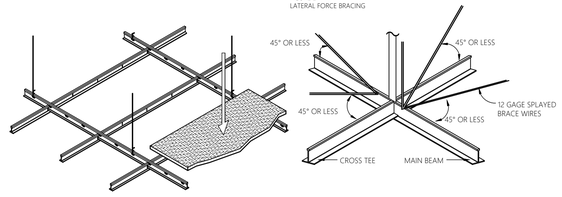
ISSUED FOR:
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☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
LIGHTBOX SECTIONS & DETAILS

Date 05/15/2026
Drawn By STAFF
Checked By CM

Sheet No.:
A430

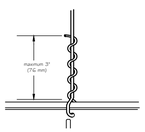
FIGURE 2
LATERAL FORCE BRACING



THIS DOCUMENT PROVIDES THE IBC-REFERENCED STANDARDS FOR THE INSTALLATION OF SUSPENSION SYSTEMS FOR ACOUSTICAL LAY-IN CEILINGS. INCORPORATION OF THIS DOCUMENT WILL PROVIDE A MORE UNIFORM STANDARD FOR INSTALLATION AND INSPECTION. THIS DOCUMENT IS DESIGNED TO ACCOMPLISH THE INTENT OF THE INTERNATIONAL BUILDING CODE (IBC) WITH REGARD TO THE REQUIREMENTS FOR SEISMIC DESIGN CATEGORY D, E, AND F FOR SUSPENDED CEILINGS AND FEATED ITEMS. UNLESS SUPPORTED BY ENGINEERING, THE SUSPENSION SYSTEM SHALL BE INSTALLED PER THE REQUIREMENTS FOR SEISMIC DESIGN CATEGORY (SDC) D, E AND F PER THE IBC. MANUFACTURERS' RECOMMENDATIONS SHOULD BE FOLLOWED.

GENERAL RECOMMENDATIONS

- REFERENCED SOURCES PER HIERARCHY: 2009 IBC (INTERNATIONAL BUILDING CODE), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM C 635, ASTM C 636, ASTM E 580/ASTM E 580M), AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE7-05) AND CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION (CISCA)
- PARTITIONS THAT ARE TIED TO THE CEILING AND ALL PARTITIONS GREATER THAN 6 FEET IN HEIGHT SHALL BE LATERALLY BRACED TO THE STRUCTURE. BRACING SHALL BE INDEPENDENT OF THE CEILING SPLAY BRACING SYSTEM. SOURCE: ASCE 7-05 SECTION 13.5.8.1
- FOR FURTHER INFORMATION ON BRACING OF NON-LOAD BEARING PARTITIONS REFER TO NWCB TECHNICAL DOCUMENT #200-501
- ALL MAIN BEAMS ARE TO BE HEAVY DUTY (HD). SOURCE ASCE 7-05 SECTION 13.5.6.2.2 a
- ALL CROSS TEES SHALL BE CAPABLE OF CARRYING THE DESIGN LOAD WITHOUT EXCEEDING DEFLECTION EQUAL TO 1/360 OF ITS SPAN. SOURCE CISCA ZONES 3-4



- THESE RECOMMENDATIONS ARE INTENDED FOR SUSPENDED CEILINGS INCLUDING GRID, PANEL OR TILE, LIGHT FIXTURES AND AIR TERMINALS WEIGHING NO MORE THAN 4LBS PER SQUARE FOOT. SOURCE ASCE 7-05 SECTION 13.5.6.1
- ALL WIRE TIES ARE TO BE THREE TIGHT TURNS AROUND ITSELF WITHIN THREE INCHES. TWELVE GAGE HANGER WIRE SPACED 4 FOOT ON CENTER (FIGURE 1). SOURCE ASTM C 636 ITEM 2.3.4
- CHANGES IN CEILING PLANES WILL REQUIRE POSITIVE BRACING. SOURCE: ASCE 7-05 13.5.6.2.2 f

FIGURE 3
MAXIMUM RECOMMENDED LENGTHS FOR VERTICAL STRUTS

EMT CONDUIT	
1/2" EMT conduit	up to 5'-10"
3/4" EMT conduit	up to 7'-8"
1" EMT conduit	up to 9'-9"
METAL STUDS	
Single 1-5/8" metal stud (20 gauge)	up to 12'-0"
Back-to-back 1-5/8" metal stud (20 gauge)	up to 15'-0"
Single 2-1/2" metal stud (20 gauge)	up to 13'-6"
Back-to-back 2-1/2" metal stud (25 gauge)	up to 15'-0"

SOURCE: PORTLAND BUILDING DEPARTMENT

NOTE: PLENUM AREAS GREATER THAN 15'-0" WILL REQUIRE ENGINEERING CALCULATIONS.

FIGURE 4a
ATTACHED WALL MOLDING REQUIREMENTS

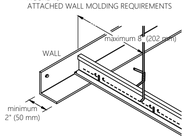
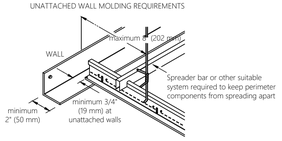


FIGURE 4b
UNATTACHED WALL MOLDING REQUIREMENTS



LATERAL FORCE BRACING (FIGURES 2 AND 3)

- CEILINGS CONSTRUCTED OF LATH AND PLASTER OR GYPSUM BOARD, SCREW OR NAIL ATTACHED TO SUSPENDED MEMBERS THAT SUPPORT A CEILING ON ONE LEVEL EXTENDING FROM WALL TO WALL SHALL BE EXEMPT FROM THE LATERAL FORCE BRACING REQUIREMENTS.
- LATERAL FORCE BRACING IS THE USE OF VERTICAL STRUTS (COMPRESSION POSTS) AND SPLAY WIRES (SEE FIGURE 2).
- FOR CEILING AREAS EXCEEDING 1,000 SQUARE FEET, HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM (LATERAL FORCE BRACING) SHALL BE PROVIDED. SOURCE: ASCE 7-05 SECTION 13.5.6.2.2 c
- LATERAL FORCE BRACING SHALL BE 12 FEET ON CENTER (MAXIMUM) AND BEGIN NO FARTHER THAN 6 FEET FROM WALLS.
- SEISMIC SPLAY WIRES ARE TO BE FOUR 12 GAGE WIRES ATTACHED TO THE MAIN BEAM. WIRES ARE ARRAYED 90° FROM EACH OTHER AND AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.
- SEISMIC SPLAY WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL DESIGN LOAD, WITH A SAFETY FACTOR OF 2, WHICHEVER IS GREATER (FIGURE 6b).
- "POWDER DRIVEN SHOT-IN-ANCHORS" WHEN USED FOR SEISMIC APPLICATION AS PART OF THE PRESCRIPTIVE PATH IN SEISMIC DESIGN CATEGORY B SHALL HAVE AN ICC-ES APPROVAL FOR SEISMIC APPLICATIONS AND SHALL REQUIRE "SPECIAL INSPECTION". IRRESPECTIVE OF THE TYPE OF OCCUPANCY CATEGORY THE STRUCTURE IS IN. ANCHORS FOR KICKER WIRES (SPLAYED WIRES INSTALLED FOR PURPOSES OTHER THAN SEISMIC RESTRAINT) ARE EXEMPT FROM REQUIREMENT.
- SPLAY WIRES ARE TO BE WITHIN 2 INCHES OF THE CONNECTION OF THE VERTICAL STRUT TO SUSPENDED CEILING.
- RIDGED BRACING MAY BE USED IN LIEU OF SPLAY WIRES. SOURCE: ASCE SECTION 13.5.6.2.2 c
- CEILINGS WITH PLENUMS LESS THAN 12 INCHES TO STRUCTURE ARE NOT REQUIRED TO HAVE LATERAL FORCE BRACING.
- VERTICAL STRUTS MUST BE POSITIVELY ATTACHED TO THE SUSPENSION SYSTEMS AND THE STRUCTURE ABOVE.
- THE VERTICAL STRUT MAY BE EMT CONDUIT, METAL STUDS OR A PROPRIETARY COMPRESSION POST (SEE FIGURE 3).
- CEILINGS WITH INTERSTITIAL SPACES LESS THAN 12 INCHES TO FRAMING ARE NOT REQUIRED TO HAVE LATERAL FORCE BRACING.

WALL MOLDINGS (FIGURES 4a AND 4b)

- WALL MOLDINGS (PERIMETER CLOSURE ANGLES) ARE REQUIRED TO HAVE A HORIZONTAL FLANGE 2 INCHES WIDE. ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE WALL MOLDING, THE OTHER END SHALL HAVE A 3/4 INCH CLEARANCE FROM THE WALL AND FREE TO SLIDE. SOURCE: ASCE 7-05 SECTION 13.5.6.2.2 b
- WHERE SUBSTANTIATING DOCUMENTATION HAS BEEN PROVIDED TO THE LOCAL JURISDICTION, PERIMETER CLIPS MAY BE USED TO SATISFY THE REQUIREMENTS FOR THE 2-INCH CLOSURE ANGLE.
- THE GRID SHALL BE ATTACHED AT TWO ADJACENT WALLS (POP RIVETS OR APPROVED METHOD). SOFFITS EXTENDING TO A POINT AT LEAST LEVEL WITH THE BOTTOM PLANE OF THE GRID AND INDEPENDENTLY SUPPORTED AND LATERALLY BRACED TO THE STRUCTURE ABOVE ARE DEEMED TO BE EQUIVALENT TO WALLS.

SPREADER BARS (FIGURE 4b)

- SPREADER (SPACER) BARS SHALL BE USED TO PREVENT THE ENDS OF THE MAIN BEAMS AND CROSS TEES AT PERIMETER WALLS FROM SPREADING OPEN DURING A SEISMIC EVENT. PERIMETER WIRES SHALL NOT BE IN LIEU OF SPREADER BARS.
- SPREADER BARS ARE NOT REQUIRED AT PERIMETERS WHERE RUNNERS ARE ATTACHED DIRECTLY TO CLOSURE ANGLES.
- WIRE TYING IS AN ACCEPTABLE ALTERNATIVE TO SPREADER BARS.
- SPREADER BARS ARE NOT REQUIRED IF A 90 DEGREE INTERSECTING CROSS OR MAIN IS WITHIN 8 INCHES OF THE PERIMETER WALL.
- WHERE SUBSTANTIATING DOCUMENTATION HAS BEEN PROVIDED TO THE LOCAL JURISDICTION, PERIMETER CLIPS MAY BE USED TO SATISFY THE REQUIREMENTS FOR SPREADER BARS.

HANGER (SUSPENSION) WIRES (FIGURES 5a AND 5b)

- HANGER AND PERIMETER WIRES MUST BE PLUMB WITHIN 1 IN 6 UNLESS (FIGURE 5a) COUNTER SLOPING WIRES ARE PROVIDED (FIGURE 5b). SOURCE: ASTM C 636 SECTION 2.1.4
- HANGER WIRES SHALL BE 12 GAGE AND SPACED 4 FEET ON CENTER OR 10 GAGE SPACED 5 FEET ON CENTER. SOURCE: ASTM C 636
- ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS.
- POWDER DRIVEN SHOT-IN-ANCHORS ARE AN APPROVED METHOD OF ATTACHMENT FOR HANGER WIRES.
- TERMINAL ENDS OF EACH MAIN BEAM AND CROSS TEE MUST BE SUPPORTED WITHIN 8 INCHES OF EACH WALL WITH A PERIMETER WIRE (SEE FIGURE 4.1 & 5a).
- WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. A TRAPEZE OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION. TRAPEZE SUSPENSIONS SHALL BE A MINIMUM OF BACK-TO-BACK 1-1/4" COLD-ROLLED CHANNELS FOR SPANS EXCEEDING 48 INCHES.

ELECTRICAL FIXTURES

- LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE ONE 12 GAGE HANG WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. THIS WIRE MAY BE SLACK.
- LIGHT FIXTURES WEIGHING MORE THAN 10 POUNDS AND LESS THAN 56 LBS. SHALL HAVE TWO 12 GAGE WIRES ATTACHED AT OPPOSING CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
- LIGHT FIXTURES WEIGHING MORE THAN 56 LBS. SHALL BE SUPPORTED BY DIRECTLY FROM THE STRUCTURE ABOVE. THESE WIRES MUST BE TAUT.
- PENDANT MOUNTED FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING A 9 GAGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
- TANDEM FIXTURES MAY UTILIZE COMMON WIRES.

MECHANICAL SERVICES

- TERMINALS OR SERVICES WEIGHING 20 LBS. BUT NOT MORE THAN 56 LBS. MUST HAVE TWO 12 GAGE WIRES CONNECTING THEM TO THE CEILING SYSTEM HANGERS OR THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
- TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS. MUST BE INDEPENDENTLY SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE. THESE WIRES MUST BE TAUT.

SEISMIC SEPARATION JOINTS (FIGURE 7)

- FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT OR FULL HEIGHT WALL PARTITION THAT BREAKS THE CEILING SHALL BE PROVIDED UNLESS ANALYSES ARE PERFORMED OF THE CEILINGS BRACING SYSTEM, CLOSURE ANGLES AND PENETRATIONS TO PROVIDE SUFFICIENT CLEARANCE. SOURCE: ASCE 7-05 SECTION 13.5.6.2.2 a
- THE LAYOUT AND LOCATION OF THE SEISMIC SEPARATION JOINT SHALL BE PER THE DESIGNER OF RECORD AND NOTED ON THE PLANS. IF A SEISMIC SEPARATION JOINT IS REQUIRED BY THE DESIGNER, THE DESIGNER MAY USE THE GENERIC JOINT DETAILED IN THIS DOCUMENT OR A PROPRIETARY JOINT. THE AMOUNT OF FREE MOVEMENT (GAP DESIGN) SHALL BE A MINIMUM OF 3/4 INCH.
- IN LIEU OF SEISMIC SEPARATION JOINTS, THE CEILING MAY BE DIVIDED INTO AREAS LESS THAN 2500 SQUARE FEET BY THE USE OF PARTITIONS OR SOFFITS AS FOLLOWS: PARTITIONS SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE LEVEL OF THE PLANE OF THE GRID AND SHALL BE INDEPENDENTLY BRACED TO THE STRUCTURE ABOVE. SOFFITS SHALL EXTEND TO A POINT AT LEAST LEVEL WITH THE BOTTOM PLANE OF THE GRID AND SHALL BE INDEPENDENTLY SUPPORTED AND LATERALLY BRACED TO THE STRUCTURE ABOVE.
- OTHER THAN PARTITIONS AND SOFFITS, SEISMIC JOINTS MAY NOT BE USED AS PART OF A FIRE RATED CEILING ASSEMBLY UNLESS SUBSTANTIATING DOCUMENTATION IS PROVIDED.

FIGURE 5a

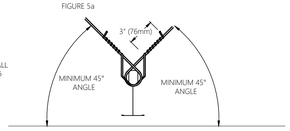


FIGURE 5b • COUNTER SLOPING

VERTICAL HANGER WIRE ATTACHMENT

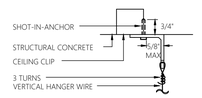


FIGURE 6a

SPLAYED SEISMIC BRACING WIRE ATTACHMENT

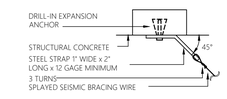


FIGURE 6b

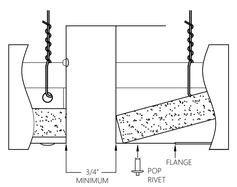


FIGURE 7

SPRINKLERS

FOR CEILING WITHOUT RIGID BRACING, SPRINKLER HEAD PENETRATIONS SHALL HAVE A 2 INCH OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS. FLEXIBLE HEAD DESIGN THAT CAN ACCOMMODATE 1 INCH FREE MOVEMENT SHALL BE PERMITTED AS AN ALTERNATE. SOURCE: ASCE 7-05 13.5.6.2.2 e

GLOSSARY FOR THIS DOCUMENT (REGIONAL TERMINOLOGY MAY VARY)

CROSS TEES
THE CROSS MEMBER THAT INTERLOCK WITH THE MAIN BEAMS, ALSO KNOWN AS CROSS RUNNERS OR CROSS T-BARS.

DIFFUSER
A CIRCULAR OR RECTANGULAR METAL GRILL USED FOR THE PASSAGE OF AIR FROM A DUCTED SYSTEM.

ESSENTIAL SERVICE BUILDINGS
ANY BUILDINGS DESIGNED TO BE USED BY PUBLIC AGENCIES AS A FIRE STATION, POLICE STATION, EMERGENCY OPERATIONS CENTER, STATE PATROL OFFICE, SHERIFF'S OFFICE, OR EMERGENCY COMMUNICATION DISPATCH CENTER.

GRID
THE MAIN BEAMS AND CROSS TEES OF THE SUSPENSION SYSTEM.

HANGER WIRE
10 OR 12 GAGE SOFT ANNEALED WIRE USED AS PRIMARY SUPPORT FOR THE GRID SYSTEM. ALSO CALLED SUSPENSION WIRES.

LATERAL FORCE BRACING
THE BRACING METHOD USED TO PREVENT CEILING UPLIFT OR RESTRICT LATERAL MOVEMENT DURING A SEISMIC EVENT. LATERAL FORCE BRACING CONSISTS OF VERTICAL STRUTS AND SPLAY WIRES.

MAIN BEAM
THE PRIMARY SUSPENSION MEMBER SUPPORTED BY HANGER WIRES, ALSO KNOWN AS THE MAIN RUNNER.

MOLDING/CLOSURE ANGLE
A LIGHT GAUGE METAL ANGLE OR CHANNEL FASTENED TO THE PERIMETER WALL OR PARTITION TO SUPPORT THE PERIMETER ENDS OF AN ACOUSTICAL CEILING GRID

PERIMETER CLIPS
PROPRIETARY ANGLE BRACKET ATTACHED DIRECTLY TO/ IN WALL MOLDING/CLOSURE ANGLE WHICH ALLOWS FOR 3/4" MOVEMENT IN THE EVENT OF SEISMIC ACTIVITY AND INTERLOCKS PROPERLY WITH ENDS OF GRID SYSTEM.

PERIMETER WIRES
HANGER WIRES PLACED WITHIN EIGHT INCHES OF THE SURROUNDING WALLS.

PLENUM
THE SPACE ABOVE A SUSPENDED CEILING.

SLACK WIRE
A 12 GAGE WIRE THAT IS NOT TIGHT OR TAUT.

SPREADER OR SPACER BAR
A BAR WITH NOTCHES TO PREVENT THE SUSPENSION SYSTEM FROM SEPARATING, ALSO CALLED A STABILIZER BAR.

SPLAY WIRES
WIRES INSTALLED AT AN ANGLE RATHER THAN PERPENDICULAR TO THE GRID.

VERTICAL STRUTS
THE RIGID VERTICAL MEMBER USED IN LATERAL FORCE BRACING OF THE SUSPENSION SYSTEM. ALSO KNOWN AS A COMPRESSION POSTS, SEISMIC POSS, SEISMIC STRUTS. COMMON MATERIALS ARE ELECTRICAL CONDUIT (EMT), METAL STUDS OR PROPRIETARY PRODUCTS.

UPGRADING OF EXISTING CEILINGS

- CEILINGS WITHOUT SEISMIC BRACING: WHERE EXISTING CEILINGS ARE WITHOUT SEISMIC BRACING, THE CEILING SYSTEM SHALL BE BROUGHT INTO SUBSTANTIAL COMPLIANCE WITH CURRENT CODE REQUIREMENTS WHEN 50% OR MORE OF THE CEILING TILE IS ALTERED, REPAIRED OR REPLACED AS PART OF A GENERAL SPACE ALTERATION, OR IF ALL OF THE CEILING SYSTEM IS REMOVED.

  -SUBSTANTIAL COMPLIANCE MEANS INSTALLATION OF THE FOLLOWING ITEMS WHERE REQUIRED IN NEW CONSTRUCTION:
  -LATERAL FORCE BRACING (SPLAYED WIRES)
  -COMPRESSION STRUTS,
  -SLACK WIRES ON ALL LIGHT FIXTURES AND AIR TERMINALS

  -THIS REQUIREMENT DOES NOT TRIGGER THE NEED FOR:
  -2 INCH CLOSURE ANGLE AS SPECIFIED IN SECTION II
  -SEISMIC SEPARATION JOINTS
  -1 INCH MOVEMENT IN ALL DIRECTIONS AROUND SPRINKLER PENDANTS

  -THESE UPGRADES ARE NOT REQUIRED WHEN:
  -REMOVING PORTIONS OF TILES OR PANELS AND/OR GRID TO ALTER DUCTWORK, SPRINKLER PIPE, ETC.
  -PORTIONS OF A CEILING ARE REMOVED ONLY TO FACILITATE THE INSTALLATION OF SPRINKLER PIPING

- CEILINGS WITHOUT COMPRESSION STRUTS: WHERE EXISTING CEILINGS HAVE SEISMIC BRACING BUT DO NOT HAVE COMPRESSION STRUTS AT THE CENTER OF THE SPLAYED WIRES, THE ADDITION OF COMPRESSION STRUTS WILL ONLY BE REQUIRED WHEN AND WHERE THE GRID IS REPLACED, ALTERED, RAISED OR LOWERED.

2 SUSPENDED SYSTEMS FOR ACOUSTICAL LAY-IN CEILINGS

NO SCALE

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Construction for:

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A Brand of EssilorLuxottica

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Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
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2 **RENDERING - INTERIOR 2**
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3 **RENDERING - INTERIOR 3**
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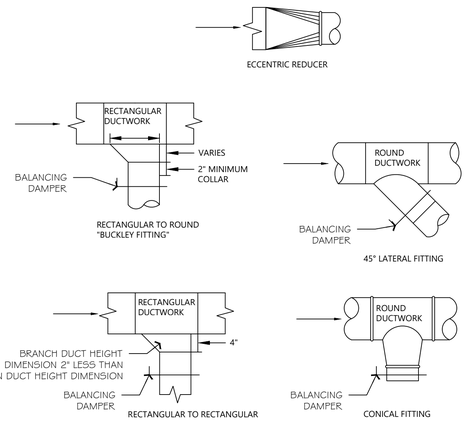
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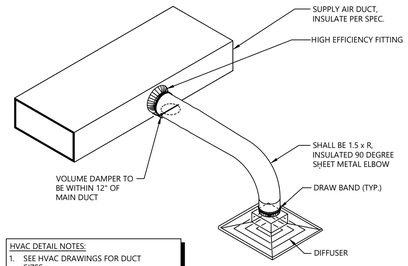
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A DUCT BRANCH TAKE-OFF DETAIL

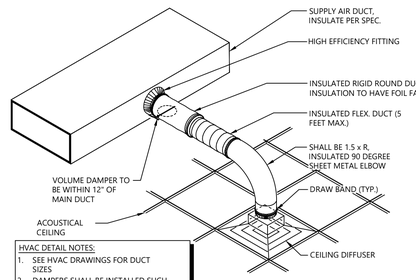
SCALE: NONE — A-LC09-M001-REV04



HVAC DETAIL NOTES:
1. SEE HVAC DRAWINGS FOR DUCT SIZES
2. DAMPERS SHALL BE INSTALLED SUCH THAT EACH DIFFUSER IS CAPABLE OF INDEPENDENT BALANCING

B OPEN-CEILING DUCT CONNECTION DETAIL

SCALE: NONE — C-LC09-M001-REV04

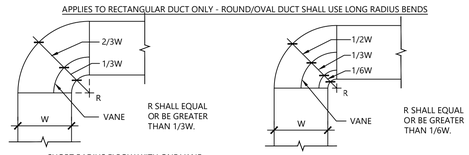


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C DUCT CONNECTION DETAIL

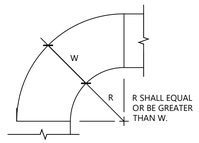
SCALE: NONE — C-LC09-M001-REV04

APPLIES TO RECTANGULAR DUCT ONLY - ROUND/OVAL DUCT SHALL USE LONG RADIUS BENDS



SHORT RADIUS ELBOW WITH ONE VANE

SHORT RADIUS ELBOW WITH TWO VANES



STANDARD RADIUS ELBOW

D RADIUS ELBOW DETAIL

SCALE: NONE — D-LC09-M001-REV04

TABLE - 2

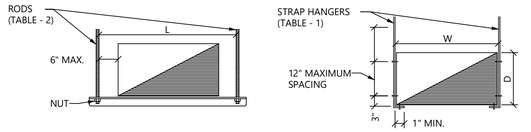
ALLOWABLE HANGER LOAD, MAX.

STRAPS	LBS.	RODS	LBS.
(2) 1" x 22 GA.	520	(2) 1/4"Ø	540
(2) 1" x 20 GA.	640	(2) 3/8"Ø	1360
(2) 1" x 18 GA.	840	(2) 1/2"Ø	2500
(2) 1" x 16 GA.	1400	(2) 5/8"Ø	4000
		(2) 3/4"Ø	6000

TABLE - 1

STRAP HANGERS (PAIR) SPACED

W + D MAX.	10'-0" MAX.	8'-0" MAX.	5'-0" MAX.
72"	1" x 22 GA.	1" x 22 GA.	1" x 22 GA.
96"		1" x 20 GA.	1" x 22 GA.
120"		1" x 18 GA.	1" x 22 GA.
168"			1" x 18 GA.
192"			1" x 16 GA.



E RECTANGULAR DUCT SUPPORT DETAIL - NON SEISMIC

SCALE: NONE — I-LC09-M001-REV04

HANGER STRAPS / RODS

MAX. DUCT DIA.	HANGER	MAX. LOAD LBS.	MAX. SPACING FT.
26"	(1) 1" x 22 GA. STRAP	260	12
36"	(1) 1" x 18 GA. STRAP	420	12
50"	(1) 1" x 16 GA. STRAP	700	12
60"	(2) 3/8"Ø RODS	1320	12
84"	(2) 1/2"Ø RODS	2500	12

NOTE:

1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.



F ROUND DUCT SUPPORT DETAIL - NON SEISMIC

SCALE: NONE — J-LC09-M001-REV04

A GENERAL NOTES - APPLIES TO ALL SHEETS

A. THE CONTRACT DOCUMENTS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES. IF ALTERNATE MANUFACTURERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THIS G.C. TO COORDINATE ALL DIFFERENCES AND IMPACTS WITH ALL TRADES PRIOR TO BID, INCLUDING COSTS ASSOCIATED WITH REQUIRED CHANGES TO OTHER TRADES. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE G.C.'S OPTION. NO ALTERNATES WILL BE PERMITTED WITHOUT FIRST BEING APPROVED VIA SUBMITTAL TO THE ENGINEER OF RECORD. ALLOW FOR 14 DAYS FOR SUBMITTAL REVIEW.

B. EXISTING MECHANICAL INFORMATION IS BASED ON LIMITED EXISTING BUILDING DRAWINGS AND FIELD WORK. THE G.C. SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR ACCURACY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR REVISIONS TO THE DESIGN TO CORRECT FOR EXISTING CONDITIONS NOT AS INDICATED ON THE PLANS.

C. G.C. SHALL NOTIFY TENANT, ARCHITECT AND ENGINEER OF ANY SITUATIONS THAT MODIFY OR INCREASE THE SCOPE OF WORK FROM WHAT IS DESCRIBED IN THE DOCUMENTS.

D. G.C. SHALL BE RESPONSIBLE FOR ALL CUTTING/PATCHING RELATED TO THEIR WORK.

E. COORDINATE LOCATION AND ELEVATION OF MECHANICAL WORK WITH ALL DUCTWORK, LIGHT FIXTURES, AND OTHER CEILING BUILT-IN FIXTURES. CONTACT ENGINEER OR ARCHITECT IMMEDIATELY SHOULD ANY CONFLICT ARISE.

F. MOUNTING OF ALL EQUIPMENT, DUCTWORK AND PIPING MUST BE DONE PER BUILDING GUIDELINES AND LOCAL CODES AND INDUSTRY STANDARDS. COORDINATE INSTALLATION OF EQUIPMENT SUPPORT WITH BUILDING MANAGER AND ESSILOR LUXOTTICA REPRESENTATIVE.

G. DUCT SIZES INDICATED REPRESENT CLEAR INTERIOR SHEET METAL DIMENSIONS.

H. ALL DUCTWORK CONCEALED ABOVE CEILINGS, AND ALL OUTSIDE AIR DUCTS, SHALL BE EXTERNALLY INSULATED. IF DUCTWORK IS RUN IN A NON-CONDITIONED SPACE ALL DUCTWORK MUST BE INSULATED WITH 2" FIBERGLASS INSULATION AND VAPOR BARRIER.

I. BRANCH DUCTS SERVING DIFFUSERS SHALL BE SIZED TO MATCH DIFFUSER NECK SIZE INDICATED.

J. ALL ROUND DUCT ELBOWS SHALL BE LONG SWEEP, 1-1/2 TIMES THE CENTERLINE RADIUS.

K. G.C. MUST REPLACE ALL AIR FILTERS IN HVAC UNITS WITH NEW CLEAN FILTERS BEFORE AIR BALANCING AND PRIOR TO FINAL TURNOVER TO TENANT.

L. IT IS THE G.C.'S RESPONSIBILITY TO ENSURE THAT THE MECHANICAL COMPONENTS ARE INSTALLED AT LOCATIONS AND ELEVATIONS WHICH MAKE THEM READILY AND SAFELY ACCESSIBLE FOR ROUTINE MAINTENANCE WITHOUT REQUIRING ANY EXTRAORDINARY MEASURES. ALL EQUIPMENT SHALL BE ACCESSIBLE, INCLUDING ALL SERVICEABLE COMPONENTS, AND SHALL BE WITHIN REACH FOR SERVICING AND MAINTENANCE.

M. THE TENANT RESERVES THE RIGHT TO CHECK CONSTRUCTION COMPLIANCE WITH PLANS AND SPECIFICATIONS. SHOULD THE TENANT FIND CORRECTIVE WORK NECESSARY, GC WILL BE NOTIFIED OF SUCH WORK IN WRITING AND EXPECT COMPLIANCE PERFORMED WITH DUE DILIGENCE. IF ANY CORRECTIVE WORK IS DEEMED TO BE NECESSARY, THE COST OF REINSPECTIONS WILL BE BORNE BY THE G.C. IF WORK IS REQUIRED BY TENANT IN ORDER TO IMPROVE, CHANGE OR CORRECT AIR CONDITIONING OPERATIONAL CONDITIONS DUE TO: PART MALFUNCTION, WARRANTY OR OTHER INABILITY TO PROVIDE THE COMFORT CONDITIONS REQUIRED BY THE STORE, G.C. SHALL BE DIRECTED BY TENANT TO ADDRESS THIS WORK IN A TIMELY MANNER. IF IT BECOMES EVIDENT THAT THE G.C. CAN NOT ACCOMPLISH THE TASK, THEN AFTER 72 HOURS OF WRITTEN NOTICE, THE TENANT MAY AT HIS DISCRETION TAKE OVER SUCH WORK AND BACK CHARGE THE G.C. FOR ANY CORRECTIVE WORK THAT WAS REQUIRED DUE TO LACK OF PERFORMANCE, WORKMANSHIP AND/OR ADHERENCE TO PLANS AND SPECIFICATIONS.

N. DUCTWORK SHALL NOT BE ROUTED OVER ELECTRIC PANELS AND TRANSFORMER.

O. GC RESPONSIBLE TO OBTAIN CERTIFIED AIR BALANCING REPORT FROM THIRD-PARTY VENDOR MELINK. GC TO COORDINATE WITH THIRD-PARTY VENDOR REGARDING THE SITE READINESS AND DATES OF INSPECTIONS AROUND TAB REPORTS, PRE-GRID WALK THROUGH AND COMMISSIONING. IF SITE IS NOT READY AND THE THIRD-PARTY VENDOR NEEDS TO RETURN TO PERFORM THEIR WORK, THE GC WILL BE RESPONSIBLE FOR ANY COSTS INCURRED FOR A REVISIT AS REQUIRED.

Q. SPACE ABOVE CEILING IS INDICATED TO BE A RETURN AIR PLENUM, CONSTRUCTION MATERIALS ABOVE CEILING SHALL BE NONCOMBUSTIBLE, OR HAVE A MAXIMUM 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT FINISH RATING. WIRING SHALL BE LABELED PLENUM RATED TYPE PER NFPA 70.

R. NO PVC PIPING ALLOWED IN PLENUM AREAS.

1-LC09-M001-REV04

B RESPONSIBILITY SCHEDULE (HVAC)

T= TENANT
GC= GENERAL CONTRACTOR
LL= LANDLORD
MW= MILLWORKER
N/A= NOT APPLICABLE

DIVISION 15000 - MECHANICAL	SUPPLIED BY SUPL	RECEIVED BY RCV	INSTALLED BY INSTL	EXISTING EXG	PATCH & REPAIR P & R	RECYCLE RELO	REMARKS
HVAC DISTRIBUTION, DUCTWORK, DIFFUSERS	GC	GC	GC				
HVAC UNIT(S) - ERTU-1, ERTU-2			●				LLD INSTALLING NEW UNITS DURING REDEMISE. GC TO CONFIRM UPON POSSESSION.
HVAC UNIT CURBS			●				
CONTROLS FOR HVAC UNIT(S)	GC	GC	GC				PROVIDE & INSTALL NEW THERMOSTATS AND TEMPERATURE SENSORS. SEE INSTRUCTIONS ON SHEET M020.
TOILET ROOM EXHAUST FANS	GC	GC	GC				
SMOKE DETECTORS	GC	GC	GC				MECHANICAL CONTRACTOR TO FURNISH AND INSTALL. ELECTRICAL CONTRACTOR TO MAKE FINAL CONNECTIONS.

MEP RESP SCHEDULE-REV01

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PROJECT NUMBER: 25-0381

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

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Sheet Name: MECHANICAL GENERAL NOTES & DETAILS

Date 05/01/2026
Drawn By WNA
Checked By CJD

Sheet No.: M001

Air System Sizing Summary for Default System
(In Alternative: Default Alternative RTU's)

Project: 25-0381 - LC Brunswick Sq Mall NJ — 12/29/2025
Prepared by: WNA Engineering, Inc. — 11:26 AM

Air System Information

Air System Name	Default System	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	3722.1 sqft
Air System Type	SZCAV	Location	Monmouth Executive, NJ, USA

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	11.7 Tons	Peak coil load occurs at	July 17:00
Total coil load	140.7 MBH	OA DB / WB	90.0 / 73.6 F
Sensible coil load	114.2 MBH	Entering DB / WB	77.5 / 65.7 F
Coil CFM at peak load	5136 CFM	Leaving DB / WB	57.2 / 56.9 F
Sum of peak zone CFM	5136 CFM	Resulting RH	55 %
Sensible heat ratio	0.812	Design supply temp.	58.0 F
CFM/Ton	438.2	Zone T-stat Check	1 of 1 OK
sqft/Ton	317.6	Max zone temperature deviation	0.0 F
BTU/(hr sqft)	37.8		
Water flow @ 10.0 F rise	N/A		

Central Heating Coil Sizing Data

Max coil load	81.6 MBH	Load occurs at	Design Heating
Coil CFM at Design Heating	5136 CFM	BTU/(hr sqft)	21.9
Max coil CFM	5136 CFM	Ent. DB / Lvg DB	60.4 / 75.1 F
Water flow @ 20.0 F drop	N/A		

Supply Fan Sizing Data

Design CFM	5136 CFM	Fan motor BHP	2.81 BHP
Design CFM/sqft	1.38 CFM/sqft	Fan motor kW	2.23 kW
		Fan total static	2.00 in wg

Outdoor Ventilation Air Data

Design airflow CFM	848 CFM	CFM/person	16.24 CFM/person
CFM/sqft	0.23 CFM/sqft		

Air System Heat Balance Summary for Default System
(In Alternative: Default Alternative RTU's)

Project: 25-0381 - LC Brunswick Sq Mall NJ — 12/29/2025
Prepared by: WNA Engineering, Inc. — 11:26 AM

Table 1. System Loads

	DESIGN COOLING - JULY 17:00 OA DB / WB 90.0 F / 73.6 F			DESIGN HEATING OA DB / WB 11.6 F / 9.1 F		
COMPONENT LOADS	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Zone Conditioning	-	92505	9644	-	35853	0
Plenum Load	-	0	0	-	0	0
Return Fan Load	5136 CFM	0	-	5136 CFM	0	-
Ventilation Load	848 CFM	13559	15631	848 CFM	53185	0
Supply Fan Load	5136 CFM	7614	-	5136 CFM	-7614	-
Zone Fan Coil Fans Load	-	0	-	-	0	-
>> Total System Loads	-	113678	25275	-	81424	0
Central Cooling Coil	-	114190	26462	-	0	0
Central Heating Coil	-	0	-	-	81613	-
>> Total Conditioning	-	114190	26462	-	81613	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Table 2. Zone Heat Balance Loads

	DESIGN COOLING - JULY 17:00 OA DB / WB 90.0 F / 73.6 F			DESIGN HEATING OA DB / WB 11.6 F / 9.1 F		
Zone Heat Balance Component	Details	Sensible [BTU/hr]	Latent [BTU/hr]	Details	Sensible [BTU/hr]	Latent [BTU/hr]
Exterior Wall Convection	955 sqft	4021	-	955 sqft	3688	-
Roof Convection	1588 sqft	12552	-	1588 sqft	7306	-
Window Convection	203 sqft	2684	-	203 sqft	2759	-
Skylight Convection	0 sqft	0	-	0 sqft	0	-
Door Convection	0 sqft	0	-	0 sqft	0	-
Floor Convection	3722 sqft	9160	-	3722 sqft	4603	-
Interior Wall Convection	9079 sqft	15173	-	9079 sqft	4340	-
Ceiling Convection	2135 sqft	8738	-	2135 sqft	3913	-
Overhead Lighting Convection	4903 W	9234	-	0 W	0	-
Task Lighting Convection	0 W	0	-	0 W	0	-
Electric Equipment Convection	10900 W	27894	-	0 W	0	-
People Convection	52	3790	9725	0	0	0
Infiltration	0 CFM	0	0	116 CFM	8156	0
Miscellaneous Equipment	-	0	0	-	0	0
Air Internal Energy Change	-	0		-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	93245	9725	-	34765	0
Key:	Positive values are cooling loads Negative values are heating loads			Positive values are heating loads Negative values are cooling loads		

Note 1: Surface convection line items show the combined effects of conductive heat gain to the surface and radiative heat gains absorbed at the surface which are then convected to room air.

Note 2: Lighting, equipment, and people line items include only the direct convective heat gain from the heat source to the room air. The radiative portion of the heat gain is first absorbed by surfaces in the room and then later convected from the surface to the air. Therefore the effect of the radiative portion of the heat gain is found in the surface convection line items.

Note 3: Solar heat gain is absorbed by surfaces in the room, re-radiated to other surfaces, and finally convected from the surfaces to room air. Therefore, the effect of solar heat gain is found in the surface convection line items.

VENTILATION SYSTEM SUMMARY

UNIT TAG	VENTILATION AREA COMPONENT (CFM)	VENTILATION PEOPLE COMPONENT (CFM)	SYSTEM OCCUPANT DIVERSITY	UNCORRECTED VENTILATION REQUIREMENT (CFM)	SYSTEM VENTILATION EFFICIENCY	CORRECTED VENTILATION REQUIREMENT (CFM)	VENTILATION PROVIDED (CFM)
RTU-1	191	180	100%	371	98%	378	380
RTU-2	114	140	100%	254	74%	345	345

MECHANICAL VENTILATION SCHEDULE

SPACE NAME	VENTILATION CLASSIFICATION	UNIT	SPACE VENTILATION EFFICIENCY	AREA (SF)	CFM /FT²	OCCUPANTS	CFM/ PERSON	BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EXHAUST CFM/FIXTURE	NUMBER OF FIXTURES	EA CFM REQUIRED	EA CFM PROVIDED
101 - RETAIL SALES	SALES	RTU-1	98.1%	1587.5	0.12	24	7.5	371	-	-	-	-
102 - OD RECEPTION	RECEPTION AREAS	RTU-2	73.7%	380.5	0.06	11	5	78	-	-	-	-
103 - OD ADMIN	OFFICE SPACE	RTU-2	94.2%	116.9	0.06	2	5	17	-	-	-	-
104 - LAB	OFFICE SPACE	RTU-2	105.2%	161.5	0.06	1	5	15	-	-	-	-
105 - PRETEST 1	OFFICE SPACE	RTU-2	94.3%	102.6	0.06	2	5	16	-	-	-	-
106 - PRETEST 2	OFFICE SPACE	RTU-2	94.3%	102	0.06	2	5	16	-	-	-	-
107 - CORRIDOR	CORRIDORS	RTU-2	97.9%	219.2	0.06	0	0	13	-	-	-	-
108 - RESTROOM 1	TOILET ROOMS (PUBLIC) (INTERMITTENT)	RTU-2	112.2%	73.1	0	0	0	0	70	1	70	85
109 - RESTROOM 2	TOILET ROOMS (PUBLIC) (INTERMITTENT)	RTU-2	112.2%	66.8	0	0	0	0	70	1	70	85
110 - OFFICE	OFFICE SPACE	RTU-2	94.5%	64.9	0.06	2	5	14	-	-	-	-
111 - BOH	BREAK ROOMS (LOW OCCUPANCY) (NOTE 2)	RTU-2	100.0%	320	0.06	2	5	29	-	-	-	-
112 - ELECTRICAL	STORAGE ROOM (OCCUPIED/DRY MATERIALS)	RTU-2	112.2%	96.4	0	0	0	0	-	-	-	-
113 - EXAM 2 + M ROOM	OFFICE SPACE	RTU-2	94.2%	127.9	0.06	2	5	18	-	-	-	-
114 - EXAM 1	OFFICE SPACE	RTU-2	94.3%	133.7	0.06	2	5	18	-	-	-	-
115 - CONTACTS	OFFICE SPACE	RTU-2	94.5%	169.2	0.06	2	5	20	-	-	-	-

NOTES:
1. MECHANICAL VENTILATION PROVIDED IN ACCORDANCE WITH 2021 NEW JERSEY UCC MECHANICAL SUBCODE.
2. THIS SPACE UTILIZES 2016 ASHRAE 62.1.

DIFFUSER NECK SIZE & RUNOUT SCHEDULE

CFM RANGE	NECK/DUCT SIZE DIAMETER
0-100	6"
101-230	8"
231-400	10"
401-600	12"
601-900	14"

NOTES:
1. ALL BRANCH DUCT DIAMETERS SHALL EQUAL DIFFUSER NECK SIZE.

DUCTWORK INSULATION SCHEDULE

SYSTEM AIR TYPE	LOCATION		INSULATION MATERIAL	INSULATION TYPE	INSULATION THICKNESS (IN)	INSULATION MIN. R-VALUE	INSULATION JACKET
SUPPLY	MECHANCIALLY COOLED SPACES	EXPOSED	NOT REQUIRED				
EXHAUST	CONDITIONED (BETWEEN BDD/MOD & EXTERIOR; DOWNSTREAM ERV)	CONCEALED	MINERAL-FIBER	BLANKET	1.0	3.0	FSK
		EXPOSED	MINERAL-FIBER	BOARD	0.5	6.0	ASJ

NOTES:
1. UNCONDITIONED AREAS INCLUDE: MECHANICAL SHAFTS WITH EXTERIOR WALL EXPOSURE, ATTICS, VENTED CRAWL SPACES, SIMILAR AREAS OUTSIDE THE BUILDING ENVELOPE.
2. CONDITIONED AREAS INCLUDE: HEATED OR COOLED AREAS WITHIN THE BUILDING ENVELOPE, CEILING PLENUMS, INTERNAL MECHANICAL SHAFTS .
3. EXPOSED APPLICATIONS INCLUDE: MECHANICAL ROOMS, STORAGE, LOADING DOCKS AND SIMILAR AREAS WHERE THE IS NO CEILING OR DUCTWORK IS BELOW CEILING.
4. A MECHANICALLY COOLED SPACE IS A SPACE SERVED BY A UNIT SUPPLYING AIR THAT IS MECHANICALLY COOLED(DX, CHILLED WATER, ETC.).
5. NOT ALL SYSTEM TYPES MAY BE USED ON PROJECT/PLANS.

DUCTWORK CONSTRUCTION SCHEDULE

LOCATION IN DUCT SYSTEM	MATERIAL	SMACNA CLASS STATIC PRESSURE (IN W.C.)	SMACNA CLASS SEAL CLASS	SMACNA CLASS LEAKAGE CLASS (RECTANGULAR/ ROUND)	SMACNA CLASS POSITIVE(P) OR NEGATIVE(N)	DUCT TEST PRESSURE (IN W.C.)	REMARKS
GENERAL SUPPLY AIR DUCTS (SINGLE ZONE, VVT SYSTEMS, MAKE-UP AIR)	GALVANIZED STEEL	2"	B	12/6	P	3	1
GENERAL EXHAUST DUCTS RUNS UNDER 100' LONG	GALVANIZED STEEL	1"	B	24/12	N	1	
GENERAL EXHAUST DUCTS RUNS UNDER 10' LONG	GALVANIZED STEEL	1/2"	C	24/12	N	1	
TRANSFER DUCTWORK	GALVANIZED STEEL	1"	C	N/A	N/A	N/A	

NOTES:
1. PROVIDE ACOUSTICAL LINER FOR ALL RECTANGULAR RTU SUPPLY DUCTWORK UP TO 25 FEET FROM UNIT (1" THICK)
2. NOT ALL DUCT SYSTEMS MAY BE USED ON PROJECT/PLANS.

ASHRAE STANDARD 15 REFRIGERATION SYSTEMS WITH AIR CIRCULATION - 2022 CALCULATIONS

UNIT	REFRIGERANT	TOTAL SPACE VOLUME (FT^3)	RETURN AIR PLENUM VOLUME (FT^3)	EFFECTIVE DISPERSAL VOLUME, V_{dif} (FT^3)	LOWER FLAMMABILITY LIMIT, LFL (LB/FT^3)	CONCENTRATION FACTOR, CF	OCCUPANCY ADJUSTMENT FACTOR, F_{occ}	EFFECTIVE DISPERSAL VOLUME CHARGE, $EDVC$ (LB)	REFRIGERANT CHARGE, m_s, (LB)	ASHRAE 15 COMPLIANCE ($IE.\ EDVC>m_s$)	NOTES
ERTU-1	R-454B	1,511.0	6044.0	7,555.0	0.022	0.5	1	83.11	7.60	COMPLIANT	
ERTU-2	R-454B	2,028.0	8112.0	10,140.0	0.022	0.5	1	111.54	3.90	COMPLIANT	

NOTES:
1. COMPLIANCE PROVIDED IN ACCORDANCE WITH ASHRAE STANDARD 15 - 2022 SECTION 7.6.1.1

FAN SCHEDULE

TAG	SERVES	TYPE	CFM	SP (IN W.C.)	FAN RPM	HP	ELECTRIC VOLTS/PHASE	WEIGHT (LBS.)	MAX. SONES	CONTROL	MANUFACTURER	MODEL
EF-1	108 - RESTROOM 1	CEILING	85	0.2	900	15	115/1	12	0.7	SWITCH	GREENHECK	SP-A90
EF-2	109 - RESTROOM 2	CEILING	85	0.2	900	15	115/1	12	0.7	SWITCH	GREENHECK	SP-A90

NOTES:
1. PROVIDE THE FOLLOWING FOR EACH FAN: DISCONNECT SWITCH, BACKDRAFT DAMPER, BIRDSCREEN.
2. NEW EXHAUST FANS SHALL BE TIED INTO EXISTING BUILDING EXHAUST TERMINATION POINTS VIA 6"Ø EXHAUST DUCTS. FIELD VERIFY DUCTWORK ROUTING.

EXISTING PACKAGED ROOFTOP UNIT SCHEDULE

TAG	NOMINAL TONS	SERVES	REFRIGERANT TYPE	REFRIGERANT CHARGE (LBS)	SA/RA ARRANGEMENT	SUPPLY FAN TOTAL CFM	SUPPLY FAN OA CFM	SUPPLY FAN ESP (" W.G.)	TOTAL MBH	SENSIBLE MBH	COMPRESSOR QTY/TYPE	HEATING TYPE	HEATING MIN/MAX GAS PRESS. ("W.G.)	HEATING INPUT MBH	HEATING OUTPUT MBH	HEATING STAGES / TURNDOWN	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTS/ PHASE	MANUFACTURER	MODEL
ERTU-1	7.5	SALES	R-454B	7.6	DOWN/DOWN	3000	380	1	93.7	73	2	NAT.GAS	4/13	120	97.2	2	43	50	208/3	TRANE	YSK090A3S0L
ERTU-2	5	BOH	R-454B	3.9	DOWN/DOWN	2000	345	1	61.7	48.2	1	NAT.GAS	4/13	100	81	2	29	45	208/3	TRANE	YSK060A3S0M

NOTES:
1. INSTALL NEW DUCT SMOKE DETECTORS IN THE SUPPLY AND RETURN DROPS OF THE EXISTING UNITS. UNITS SHALL DISABLE UPON DETECTION OF SMOKE.

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Revisions:

Mark	Date	By
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Architect / Engineer Job No.:
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EssilorLuxottica DD Set Layout No.:
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EssilorLuxottica Project Number 101653

Brand Design Type:
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ISSUED FOR:
☐ 100% PRELIM ☐ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
MECHANICAL SCHEDULES & CALCULATIONS

Date 05/01/2026
Drawn By WNA
Checked By CJD

Sheet No.:
M010

MECHANICAL SPECIFICATIONS

I. GENERAL PROVISIONS

A. GENERAL CONDITIONS, CODES & STANDARDS

1. GENERAL CONDITIONS OF THE CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) (NSPE)(NEC) AND ANY OF THE TENANT'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.

2. REFER TO THE GENERAL CONDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITIONS OF THE AIA FOR ADDITIONAL REQUIREMENTS REGARDING; SAFETY, COORDINATION & COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC.

3. ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCALLY ENFORCED, FEDERAL, STATE AND LOCAL CODES AND ORDINANCES INCLUDING ANY SPECIAL THE TENANT REQUIREMENTS IN ADDITION TO THOSE SPECIFIED.

4. GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.

B. SCOPE OF WORK

1. THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS A PART OF THE MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY SIMILAR INSTALLATIONS. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE TENANT. GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO PROVIDE THE TENANT A COMPLETE, CODE APPROVED AND OPERATIONAL MECHANICAL SYSTEMS.

2. CAREFULLY READ SPECIFICATION FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR WITH ALL TRADES' WORK SCOPE. CONSULT WITH OTHER TRADES TO INSURE PROPER LOCATIONS AND AVOID INTERFERENCES. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE TENANT BEFORE WORK IS COMMENCED.

3. ALL CONTRACTORS SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND SPECIFICATIONS, NOTE THE EXISTING CONDITIONS AND OTHER WORK THAT WILL BE REQUIRED, AND THE NATURE OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. NO ALLOWANCE SHALL BE MADE TO ALL CONTRACTORS BY REASON OF THIS FAILURE TO HAVE MADE SUCH EXAMINATION OR OF ANY ERROR ON HIS PART.

4. ALL EXISTING UTILITY AND MECHANICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE TENANT.

5. THIS GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE OPENINGS WITH THE GENERAL TRADES CONTRACTOR. THE FINAL LOCATIONS AND SIZES OF ALL DUCT AND LOUVER OPENINGS SHALL BE PROVIDED BY THIS CONTRACTOR.

6. THIS CONTRACT SHALL ALSO INCLUDE ALL LABOR, MATERIALS AND MISCELLANEOUS EXPENSES REQUIRED FOR ALL REQUIRED MECHANICAL DEMOLITION OF THE EXISTING AREAS BEING RENOVATED.

a. THE DEMOLITION SHALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED) OF ALL HVAC EQUIPMENT, PIPING, DUCTWORK, MATERIALS, ETC. NOT REQUIRED IN THE FINAL DESIGN AND INSTALLATION OF THE HVAC SYSTEMS FOR THE NEW RENOVATED AREAS.

b. ALL UNDERGROUND SERVICES NOT BEING REUSED SHALL BE CAPPED BELOW THE FLOOR.

c. ALL ABOVE GROUND SERVICES SHALL BE REMOVED BACK TO THEIR RESPECTIVE MAIN AND CAPPED OR IF THE MAIN IS NOT REQUIRED, THE MAIN SHALL BE REMOVED IN IT'S ENTIRETY.

d. COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS AND THE ARCHITECT AND THE TENANT'S GENERAL REQUIREMENTS.

7. ALL WORK INCLUDING, BUT NOT LIMITED TO PARTS, MATERIAL, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE ENGINEER AND TENANT, WHERE AN EQUIPMENT MANUFACTURER HAS A WARRANTY THAT EXCEEDS ONE YEAR, THAT WARRANTY PERIOD SHALL APPLY TO THIS PROJECT.

C. DOCUMENTS

1. THE DRAWINGS ARE DIAGRAMMATIC, ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXISTING CONDITIONS OR COORDINATION ISSUES REQUIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE TENANT.
2. ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL APPARATUS SHALL BE INCLUDING IN BID.
3. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED EVEN THOUGH NOT MENTIONED IN BOTH.
4. F ERRORS ARE FOUND IN THE DRAWINGS OR SPECIFICATIONS OR DISCREPANCIES OCCUR BETWEEN THE SAME, OR BETWEEN THE FIGURES ON THE DRAWINGS, AND THE SCALE OF SAME OR BETWEEN THE LARGER AND SMALLER DRAWINGS, OR IN THE DESCRIPTIVE MATTER ON THE DRAWINGS SHALL BE REFERRED TO THE TENANT FOR REVIEW AND FINAL DECISION PRIOR TO THE BID DUE DATE.
5. THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY AS AN ALTERNATE TO THE SPECIFIED EQUIPMENT AND MATERIAL.

a. SUBSTITUTIONS

(1) THE MANUFACTURERS AND MODEL NUMBERS INDICATED IN THE CONTRACT DOCUMENTS ARE FOR THE PURPOSE OF DESCRIPTION AND TO ESTABLISH A BASE LEVEL OF QUALITY. THE GENERAL CONTRACTOR'S BID WILL CONTEMPLATE THE USE OF THE EQUIPMENT AND MATERIALS EXACTLY AS INDICATED.

(2) THE GENERAL CONTRACTOR SHALL SUBMIT FOR APPROVAL, WITH HIS BID QUOTATION, A LIST OF ANY PROPOSED SUBSTITUTIONS OF MATERIALS AND EQUIPMENT FOR THOSE ON WHICH THE ORIGINAL DESIGN WAS BASED. A FULL DESCRIPTION OF ALL PROPOSED SUBSTITUTED ITEMS, THE CHANGE TO THEIR BID PRICE OR OTHER REASONS FOR SUCH SUBSTITUTIONS SHALL ACCOMPANY THE BID. ALL ACCESSORIES, FEATURES, ETC., SUPPLIED WITH THE SUBSTITUTED MANUFACTURER'S PRODUCT SHALL ALSO BE INCLUDED IN THE BID.

(3) IF THE GENERAL CONTRACTOR DOES NOT SUBMIT PROPOSED SUBSTITUTIONS WITH THEIR BID THE TENANT SHALL CONSIDER THE BIDDER TO BE PROPOSING THE MANUFACTURERS AND MODEL NUMBERS SPECIFIED HEREIN AND SHOWN ON THE CONTRACT DRAWINGS.

(4) SUBSTITUTIONS AFTER CONTRACT AWARD SHALL NOT BE PERMITTED.

6. MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURE PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET IN THESE SPECIFICATIONS. REFER TO EACH SECTION FOR ANY SPECIFIC REQUIREMENTS.

D. COORDINATION

1. GENERAL CONTRACTOR SHALL INCLUDE A VISIT TO THE JOB SITE AND TAKE INTO CONSIDERATION MECHANICAL, ELECTRICAL AND GENERAL TRADE WORK CURRENTLY EXISTING AND WORK WHICH MAY BE INSTALLED PRIOR TO CONTRACT AWARD. RELOCATION OF DUCTWORK, PIPING AND EQUIPMENT, AS REQUIRED, TO AVOID THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE TENANT.
2. GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE BUILDING SITE BEFORE STARTING ANY FABRICATION OR DOING ANY WORK IN THE FIELD AND SHALL BE RESPONSIBLE FOR THE CORRECT AND PROPER MEASUREMENTS OF HIS WORK ALONG WITH RESOLUTIONS FOR ANY CONFLICT OF SPACE WITH OTHER TRADES.
3. WHERE THE WORK OF TWO OR MORE TRADES INTERFERE WITH EACH OTHER AND A DEVIATION FROM DESIGN IS NECESSARY, NEITHER WORK SHALL PROCEED UNTIL THE TENANT HAS BEEN NOTIFIED OF THE CONFLICT AND THEY HAVE RENDERED A DECISION AS TO WHAT CHANGES SHOULD BE MADE.
4. GENERAL CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINED OPERATIONAL AND SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL COSTS FOR REPAIR OF DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE GENERAL CONTRACTOR CAUSING THE DAMAGE.
5. IT IS ESSENTIAL THAT ALL WORK AT THE PROJECT BE DONE AS SUCH TIME AND IN SUCH MANNER AS NOT TO INTERFERE WITH THE NORMAL OPERATIONS OF THE FACILITY. A WORK SCHEDULE SHALL BE ARRANGED WITH THE TENANT TO FACILITATE WORK WITH A MINIMUM OF INTERFERENCE WITH THE TENANT'S OPERATIONS.
6. AREAS TO BE USED FOR STORAGE SHALL BE ONLY AS DIRECTED BY THE TENANT. ALL STORED MATERIAL SHALL BE RELOCATED OR REMOVED FROM THE SITE AS DIRECTED BY THE TENANT.
7. DAILY, AND AT THE COMPLETION OF THE WORK, EACH GENERAL CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS AND DEBRIS CAUSED BY HIS WORK. UPON COMPLETION OF EACH GENERAL CONTRACTOR'S WORK, CONDITIONS OF THE SPACE(S) SHALL BE THE SAME AS FOUND PRIOR TO COMMENCEMENT OF THE WORK. FAILURE TO DO SO MAY RESULT IN THE TENANT'S EMPLOYMENT OF A SEPARATE SERVICE TO OBTAIN THIS CONDITION AND REDUCING THE FACTOR'S CONTRACT AMOUNT BY THE COST OF SUCH A SERVICE.
8. EACH GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROUGH THE NEGLECT OF HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE AS DIRECTED BY THE TENANT BY THE CRAFTSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.

E. METHODS

1. EXCAVATIONS SHALL BE MADE IN OPEN TRENCHES. FLOORS SHALL BE SAW CUT.
2. PIPING SHALL BE LAID ON AN APPROPRIATELY GRADED 6" BED OF CLEAN AND DRY SAND. ENGINEERED FILL SHALL BE USED TO BACKFILL TO 6" ABOVE THE PIPING. BACKFILL THE REMAINDER OF THE TRENCH UTILIZING THE EXCAVATED MATERIAL IF APPROVED BY THE ARCHITECT OR THE TENANT. IF THE EXCAVATED MATERIALS ARE NOT ACCEPTABLE, ENGINEERED FILL ACCEPTABLE TO THE ARCHITECT SHALL BE UTILIZED TO BACKFILL THE REMAINDER OF THE TRENCH. BACKFILL SHALL BE ACCOMPLISHED IN 9" LIFTS WITH ALL LIFTS COMPACTED TO 95% PROCTOR. PATCH FLOOR TO MATCH EXISTING.
3. EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL NOT BE SUPPORTED FROM ANY CEILINGS, OTHER PIPING, CONDUIT OR DUCTWORK, ROOF DECK, OR JOIST BRIDGING. ITEMS SHALL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
4. ALL ROOF PENETRATIONS, FLASHING AND COUNTER FLASHING SHALL BE PERFORMED BY THE LANDLORD'S ROOFING CONTRACTOR AT THE REQUESTING GENERAL CONTRACTORS COST.

II. INSULATION

A. GENERAL

1. INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.
2. CLEAN AND DRY SURFACES PRIOR TO INSULATING.
3. EXTEND INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, HANGERS AND SIMILAR PENETRATIONS.
4. INSULATION JACKET AND FITTING COVER MUST BE PLENUM RATED.
5. IT IS ESSENTIAL THAT THE INTEGRITY OF THE VAPOR-BARRIER BE MAINTAINED. SEAL ALL PENETRATIONS OF THE VAPOR BARRIER BY STAPLES, HANGERS OR WHERE OTHERWISE DAMAGED.
6. MAINTAIN ACCESS TO BALANCING DAMPERS AND VALVES.
7. INSULATION SHALL BE BY OWENS-CORNING, KNAUF, OR MANVILLE.
8. ALL DUCTWORK AND PIPING SHALL BE INSULATED PER REQUIREMENTS OF ASHRAE 90.1, CHICAGO ENERGY CONSERVATION CODE, NFPA, AND LOCAL CODES. THE FIRST 10 FEET OF RETURN DUCTS SHALL BE INTERNALLY LINED FOR ACOUSTICAL ATTENUATION. OUTSIDE AIR DUCTWORK AND DUCTWORK IN UNCONDITIONED SPACES SHALL ALWAYS BE INSULATED WITH EXTERNAL INSULATION. PIPING SYSTEMS ALWAYS REQUIRING INSULATION INCLUDES, BUT IS NOT LIMITED TO; CONDENSATE, REFRIGERANT, CHILLED WATER, HEATING HOT WATER, CONDENSER WATER, AND STEAM. INTERNALLY INSULATED DUCTS SHALL HAVE 1 INCH THICK, 1-1/2 LB DENSITY ACOUSTICAL INSULATION (AIR SIDE BLACK COATED TO MEET NFPA). INSULATION SHALL BE INSTALLED PER THE REQUIREMENTS OF THE SMACNA GUIDE AND THE MANUFACTURER'S RECOMMENDATIONS. DUCT SIZES NOTED ON DRAWING ARE INSIDE CLEAR DIMENSIONS. INSULATION WRAP SHALL BE FIBERGLASS, FOIL BACKED WRAPPING. WHERE DUCTS OR PIPING IS EXPOSED, AND REQUIRES INSULATION, PROVIDE FIBERBOARD RIGID INSULATION AND PAINT. PAINT COLOR SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, LANDLORD, AND TENANT. WHERE DUCTS OR PIPES ARE OUTSIDE THE BUILDING, AN ALUMINUM JACKET SHALL BE PROVIDED AND INSTALLED OVER THE INSULATION, AND SEALED WEATHERTIGHT.

B. HVAC

1. INTERNALLY INSULATE WITH 1 INCH THICK, 1-1/2# DENSITY ACOUSTICAL INSULATION (AIR SIDE BLACK COATED TO MEET NFPA) ALL DUCTWORK NOTED AS REQUIRING SUCH. INTERNAL INSULATION SHALL BE INSTALLED PER THE REQUIREMENTS OF THE SMACNA GUIDE AND THE MANUFACTURER'S RECOMMENDATIONS. DUCT SIZES NOTED ON DRAWING ARE SHEET METAL DIMENSIONS.
2. ALL SUPPLY AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 2 INCH OF 0.75 LB/CU.FT. FIBERGLASS, FOIL BACKED DUCT WRAPPING.

C. PIPING

1. ALL ABOVE GROUND PIPING SHALL BE INSULATED WITH FIBERGLASS PIPING INSULATION WITH AN ALL SERVICE JACKET AND SELF SEALING LAP (ASJ/SSL).
2. FITTINGS AND VALVES SHALL BE INSULATED WITH PRE-MOLDED FIBERGLASS FITTINGS AND COVERED WITH A PRE-FORMED PVC FITTING COVER.

III. PIPING

GENERAL

1. THE ENTIRE PIPING INSTALLATION, MATERIALS, EQUIPMENT, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE LOCALLY ENFORCED BUILDING CODE, THE MECHANICAL CODE.
2. TEST ALL PIPING IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
3. FURNISH ACCESS DOORS FOR VALVES.
4. THIS GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SERVICES FOR ALL EQUIPMENT WHETHER PROVIDED BY THIS GENERAL CONTRACTOR OR OTHERS. GENERAL CONTRACTOR SHALL COORDINATE HIS INSTALLATION WITH THE APPROPRIATE EQUIPMENT SUPPLIER AND SHALL REVISE THE DESIGN AS REQUIRED TO MATCH THE EQUIPMENT BEING SUPPLIED. THIS GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO CONNECT ALL EQUIPMENT TO THE PIPING SYSTEMS INCLUDING BUT NOT LIMITED TO; CONDENSATE, REFRIGERANT, CHILLED WATER, HEATING HOT WATER, CONDENSER WATER, STEAM, ETC.
5. FIRE STOPPING - REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE AND UL CONSTRUCTION DESIGN NUMBER. FOR RATED MASONRY WALL AND FLOOR ASSEMBLIES, PROVIDE A UL APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM NUMBER C-AJ-1175. FOR RATED GYPSUM BOARD ASSEMBLIES, PROVIDE A UL APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM NUMBER W-L-1003.

IV. CONDENSATE DRAINS, CONDENSER WATER UP TO 2" ABOVE GRADE AND UNDER 125 PSIG

1. ASTM B88, TYPE L, HARD DRAWN COPPER PIPE; AND ASME B16.18, CAST BRASS, OR ASME B16.22, SOLDER WROUGHT COPPER FITTINGS.

V. HVAC EQUIPMENT

A. INSTALLATION OF ALL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION INFORMATION AND INSTRUCTIONS, REQUIREMENTS AND ANY ADDITIONAL GUIDELINES. GENERAL CONTRACTOR SHALL PROVIDE ALL ADDITIONAL REQUIRED ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATIONS.

B. HVAC EQUIPMENT SHALL BE "STARTED UP" BY A FACTORY TRAINED AND AUTHORIZED SERVICE TECHNICIAN. ALL FACTORY STARTUP FORMS SHALL BE COMPLETED AND TURNED OVER TO THE TENANT WITH ALL COMPLETED WARRANTY CARDS PRIOR TO FINAL APPROVAL.

C. REUSE OF EXISTING EQUIPMENT: GENERAL CONTRACTOR SHALL INSPECT, CLEAN, AND REPAIR ANY HVAC EQUIPMENT THAT IS TO BE REUSED.

VI. AIR DISTRIBUTION

A. AIR DISTRIBUTION

1. DUCTWORK (ROUND OR RECTANGULAR OR SPIRAL) SHALL BE OF GALVANIZED STEEL CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA MANUAL AND THE FOLLOWING PRESSURE / SEAL SCHEDULE:
   a. DUCTWORK BETWEEN AHU (ROOFTOP UNIT) AND VAV BOXES - 3" W.G. POSITIVE PRESSURE, EAL CLASS A.
   b. OTHER SUPPLY AIR DUCTWORK - 2" W.G. POSITIVE PRESSURE, SEAL CLASS B.
   c. RETURN & EXHAUST DUCTWORK - 2" W.G. NEGATIVE PRESSURE, SEAL CLASS B.
2. ROUND DUCT ELBOWS SHALL BE LONG SWEEP, 1-1/2 TIMES THE CENTERLINE RADIUS UNLESS CLEARANCE IS NOT AVAILABLE AT WHICH TIME MITERED ELBOWS WITH TURNING VANES SHALL BE UTILIZED.
3. RECTANGULAR ELBOWS SHALL BE FURNISHED WITH DOUBLE THICKNESS TURNING VANES. TURNING VANES SHALL BE FASTENED WITH A DOUBLE ROW OF SCREWS.
4. FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF THE RTU: INSTALL FLEXIBLE CONNECTIONS WITH 3" WIDE DOUBLE NEOPRENE COATED FLAME RETARDANT, NFPA 90A APPROVED; FIBERGLASS FLEXIBLE CONNECTION. FLEXIBLE CONNECTION TO HAVE A MINIMUM OF 24 GAGE, 3" WIDE SHEET METAL COLLARS PERMANENTLY ATTACHED TO EACH SIDE.
5. MITERED OFFSETS GREATER THAN 30 DEGREES IN EITHER DIRECTION SHALL NOT BE PERMITTED.
6. CHANGES IN DUCT SIZES SHALL BE MADE BY UNIFORM TAPER SECTION WITH A MAXIMUM INCLUDE ANGLE OF DIVERGENCE OF 15DEGREES.
7. RECTANGULAR BALANCING DAMPERS - RUSKIN MD25 SHALL BE SINGLE BLADE UP TO 6" IN HEIGHT AND 36" IN WIDTH, AND RUSKIN MD35 MULTI-BLADE FOR LARGER SIZES. ALL ROUND BALANCING DAMPERS SHALL BE COMMERCIAL GRADE SINGLE BLADE UP TO 16" IN DIAMETER SHALL INCORPORATE LOCKING TYPE INDICATING ADJUSTMENT. BALANCING DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTS OFF MAIN AND ON ALL TAPS OFF DUCTS TO DIFFUSERS UNLESS OTHERWISE NOTED ON DRAWINGS.
8. MOTORIZED BALANCING DAMPERS - GREENHECK RBDR, MOTORIZED DAMPERS SHALL BE USED ABOVE HARD CEILINGS WHERE A REGULAR DAMPER WOULD BE INACCESSIBLE. REFER TO PLANS AND GRD SCHEDULE TO SEE WHERE MOTORIZED BALANCING DAMPERS ARE TO BE INSTALLED.
9. FINAL CONNECTIONS TO DIFFUSERS MAY BE MADE WITH FLEXIBLE DUCTWORK BUT IT'S USE IS LIMITED TO STRAIGHT HORIZONTAL OR VERTICAL RUNS. ALL CHANGES OF DIRECTION IN AN DUCT SYSTEM (GALVANIZED OR FLEXIBLE) SHALL BE MADE WITH AN APPROPRIATE GALVANIZED ELBOW. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT IS 5'-0".
10. FLEXIBLE DUCTS TO DIFFUSERS SHALL BE ATCO RUBBER PRODUCTS, INC. MODEL UPC #070, INSULATED (R=4.2), U.L. 181 RATED AND CLASS 1 AIR CONNECTOR. MAXIMUM LENGTH OF FLEXIBLE DUCT TO DIFFUSER TO BE 5'-0".
11. FIRE DAMPERS SHALL BE RUSKIN AND SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND SMACNA REQUIREMENTS FOR A U.L. APPROVED INSTALLATION. FIRE DAMPERS SHALL BE TYPE "B" (BLADES AND FRAME COMPLETELY OUT OF THE AIRSTREAM) FOR ALL WALL ASSEMBLIES AND SHALL BE INSTALLED WITH THE APPROPRIATE WALL SLEEVE AND ANGLES PER UL 555. FIRE DAMPERS SHALL BE INSTALLED IN ALL FIRE RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS AND RATINGS ON THE ARCHITECTURAL DOCUMENTS. FOR ALL FLOOR PENETRATIONS PROVIDE RUSKIN TYPE "LR" FIRE DAMPERS. SEE DETAILS ON DRAWINGS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
12. DOUBLE THICKNESS INSULATED ACCESS DOORS SHALL BE PROVIDED AT ALL FIRE DAMPERS FOR ACCESS TO FUSIBLE LINK. DOOR SHALL BE SIZED TO ALLOW FOR EASY SERVICE AND ACCESSIBILITY. ACCESS DOORS SHALL BE A MINIMUM OF 24" IN THE LONGEST DIMENSION.
13. PROVIDE 3"x3"x1/4" ANGLE FRAMING AROUND THE ROOF OPENINGS FOR THE SUPPLY AND RETURN AIR DUCTWORK.
14. SUPPORT ALL SHEET METAL AND EQUIPMENT FROM ANGLE IRON CONNECTED TO STRUCTURAL STEEL. DO NOT SUSPEND DUCT OR EQUIPMENT FROM METAL DECK OR JOIST BRIDGING.
15. DUCTWORK DIMENSIONS ON PLANS ARE CLEAR, INTERIOR DIMENSIONS.

VII. CONTROLS

A. CONTROL WIRING SHALL BE PLENUM RATED CABLE WITH COLOR CODED 18 AWG WIRES (MINIMUM).

B. CONTROLS CONTRACTOR SHALL PROVIDE ALL WIRING BETWEEN THERMOSTAT AND EQUIPMENT (AIR HANDLER, ROOFTOP UNIT, CONDENSING UNIT, ETC.).

C. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL A 120 (24) VOLT SUPPLY AIR DUCT MOUNTED IONIZATION SMOKE DETECTOR. DETECTOR SHALL BE WIRED, BY THE ELECTRICAL (CONTROLS) CONTRACTOR, TO SHUT DOWN UNIT UPON ACTIVATION.

D. THERMOSTATS

1. FURNISH AND INSTALL A HONEYWELL 7 DAY PROGRAMMABLE HEATING/COOLING THERMOSTAT AND CLEAR LOCKABLE COVER WITH APPROPRIATE CONTROL WIRING BETWEEN THERMOSTAT, (FURNACE AND CONDENSING UNIT) (ROOFTOP) AS REQUIRED TO PROVIDE A COMPLETE OPERATING SYSTEM. WIRING SHALL BE MINIMUM 18 AWG.
2. THERMOSTATS SHALL BE MOUNTED WHERE INDICATED ON THE DOCUMENTS.
3. MECHANICAL CONTRACTOR SHALL PROGRAM THERMOSTAT PER THE TENANT'S REQUIREMENTS AND TRAIN TENANT'S PERSONNEL IN THE OPERATION AND PROGRAMMING OF THE THERMOSTAT AND SYSTEM.
4. SEE THERMOSTAT PROCUREMENT DETAIL FOR SPECIFICS ON THE THERMOSTAT TO BE USED AND REQUIREMENTS FOR INSTALLATION.

VIII. TESTING AND BALANCING

A. TESTING AND BALANCING SHALL NOT BEGIN UNTIL THE SYSTEM HAS BEEN COMPLETED, IS IN FULL WORKING ORDER AND ALL EQUIPMENT START-UP HAS BEEN COMPLETED. ALL HVAC SYSTEMS AND EQUIPMENT SHALL BE PUT INTO FULL OPERATION AND THE OPERATION OF SAME CONTINUED DURING EACH WORKING DAY OF THE TESTING AND BALANCING.

B. AN INDEPENDENT "AABC" OR "NEBB" CERTIFIED AIR AND WATER BALANCE CONTRACTOR SHALL TEST AND BALANCE THE SYSTEM AND REPORT RESULTS TO THE ENGINEER TENANT AND THE LANDLORD.

1. ALL WORK SHALL BE DONE UNDER DIRECT SUPERVISION OF THE CERTIFIED BALANCING ENGINEER AND BY QUALIFIED BALANCING TECHNICIANS.
2. METHODS AND FORMS SHALL BE IN ACCORDANCE WITH THE CERTIFICATION AGENCIES RECOMMENDATIONS AND TENANT REQUIREMENTS.
3. COMPLY WITH ASHRAE RECOMMENDATIONS PERTAINING TO MEASUREMENTS, INSTRUMENTS, TESTING, ADJUSTING AND BALANCING.
4. ALL QUANTITIES SHALL BE WITHIN 10% OF THE DESIGN VALUES.
5. MECHANICAL CONTRACTOR SHALL PROVIDE ANY SHEAVE CHANGES REQUIRED ON THE HVAC UNIT.

C. PERFORMANCE TEST

1. AFTER ALL HVAC EQUIPMENT IS INSTALLED, TESTED AND BALANCED AS SPECIFIED HEREIN THEY SHALL BE OPERATED AND PLACED UNDER SURVEILLANCE FOR A PERIOD OF AT LEAST ONE (1) DAY, THIS MAY INCLUDE THE DAY OF STARTUP, TO VERIFY THAT ALL EQUIPMENT IS PRODUCING THE REQUIRED CAPACITY. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION OF THE EQUIPMENT DURING THE ENTIRE PERIOD.
2. TEST SHALL BE PERFORMED WITH ALL CONTROLS IN THE AUTOMATIC POSITION AND BUILDING LIGHTS, DAMPERS, ETC. POSITIONED TO SIMULATE NORMAL OPERATION OF THE HVAC SYSTEM.
3. DURING THE TEST, CONTROL SETTINGS MAY REQUIRE ADDITIONAL ADJUSTMENTS TO PRODUCE THE BEST BALANCED SYSTEM OPERATION. THEIR FINAL SETTING OF EACH OPERATING AND SAFETY CONTROL SHALL BE RECORDED, THEY SHALL INCLUDE, BUT NOT LIMITED TO, THERMOSTATS, LIMIT CONTROLS, AND OTHER SIMILAR ITEMS.
4. SHOULD COMPLETION OF THE INSTALLATION OCCUR AT SUCH TIME THAT THE REQUIRED PERFORMANCE TEST MUST BE CONDUCTED DURING A SEASON WHEN THE FULL OPERATION OF EITHER THE HEATING OR COOLING SYSTEM CAN NOT BE CHECKED, THE TAB CONTRACTOR SHALL PERFORM THE TEST AND RECORD ALL SUCH DATA AS IS AVAILABLE WITH SYSTEM OPERATING AUTOMATICALLY UNDER THE PREVAILING WEATHER CONDITIONS. THAT PART OF THE SYSTEM WHICH CAN NOT BE TESTED SHALL BE DELAYED UNTIL THE WEATHER IS APPROPRIATE, AT WHICH TIME THE REMAINING PART OF THE REQUIRED TESTS SHALL BE CONDUCTED AND DATA RECORDED ACCORDINGLY.
5. GC TO PROVIDE THE PROJECT MANAGER WITH A REPORT SHOWING ACCEPTABLE COMPLETION OF ALL MELINK PUNCHLIST ITEMS PRIOR TO FINAL PAYMENT.

D. ACCEPTANCE AND CHECK-OUT - GENERAL CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL, AT NO ADDITIONAL COST TO THE TENANT, AS MAY BE REQUIRED BY THE ENGINEER FOR THE PURPOSE OF VERIFYING PROPER OPERATION AND INSTALLATION OF THEIR WORK AT THE TIME OF REQUEST FOR ACCEPTANCE.

REPORTS TO INCLUDE THE FOLLOWING INFORMATION:

AIR TEMPERATURE OF RETURN AT UNIT, SUPPLY AT UNIT, SPACE TEMPERATURE OF OCCUPIED AREA, AIR TEMPERATURE AT SUPPLY DIFFUSERS (ALL OF THEM), AIR TEMPERATURE IN THE PLENUM, AND OUTSIDE AIR TEMPERATURE AT TIME OF BALANCING.

EQUIPMENT INFORMATION INCLUDING MANUFACTURER, MODEL, EXTERNAL STATIC PRESSURE ON THE MOTOR, RATED AMPS, USED AMPS, WHETHER THE SYSTEM AIR FLOW CAN BE ADJUSTED.

PACKAGED ROOF TOP UNITS

I. ROOFTOP PACKAGED HVAC UNITS

A. UNIT SHALL BE FACTORY ASSEMBLED AIR TO AIR ELECTRIC COOLING, GAS / ELECTRIC HEATING UNIT WITH REFRIGERATION SYSTEM, AIR HANDLING SYSTEM CASING AND CONTROLS.

B. CABINET SHALL BE GALVANIZED STEEL, BONDERIZED AND COATED WITH BAKED ENAMEL. UNIT SHALL BE ARRANGED FOR ALL EXTERIOR CONNECTIONS TO BE WITHIN ROOF CURB. CABINET SHALL BE LINED WITH 1" THICK NEOPRENE-COATED FIBERGLASS WITH EASILY REMOVABLE SERVICE PANELS TO ALL OPERATING COMPONENTS.

C. REFRIGERATION SYSTEM SHALL INCLUDE RECIPROCATING SERVICEABLE HERMETIC COMPRESSORS, CONDENSERS, INTERWINDED CIRCUIT EVAPORATOR COIL, EXPANSION VALVES, SERVICE VALVES, VIBRATION ISOLATORS, CRANKCASE HEATERS, SIGHT GLASSES, FILTER DRIERS, HOT GAS MUFFLERS, AND REFRIGERANT PIPING. SAFETY CONTROLS SHALL INCLUDE FUSIBLE PLUG, LOW AND HIGH PRESSURE THERMOSTATS, COMPRESSOR MOTOR OVERLOADS, TIMER TO PREVENT SHORT CYCLING COMPRESSORS.

D. CONDENSER FANS SHALL BE VERTICAL DISCHARGE PROPELLER TYPE DIRECT DRIVEN BY INHERENTLY PROTECTED, PERMANENTLY LUBRICATED MOTORS.

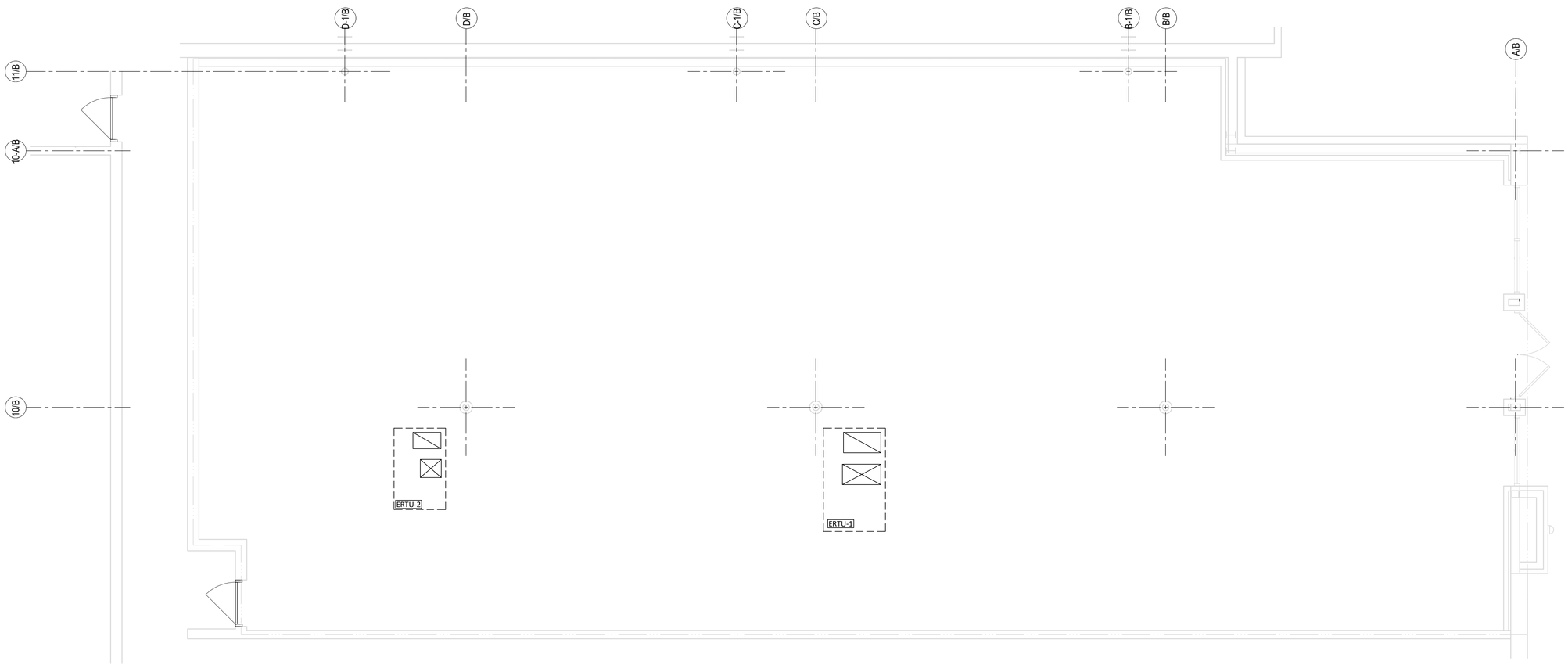
E. COILS SHALL BE ALUMINUM PLATE FINS MECHANICALLY BONDED TO SEAMLESS COPPER TUBES WITH ALL JOINTS BRAZED. COILS SHALL BE COATED WHEN WITHIN FIVE (5) MILES OF COAST.

F. INDOOR BLOWER SHALL BE FORWARD-CURVED, CENTRIFUGAL, BELT-DRIVEN TYPE,

HVAC EXISTING CONDITIONS

THERE ARE TWO EXISTING ROOFTOP UNITS WITH SUPPLY AND RETURN DUCT DROPS EXTENDING INTO THE SPACE. DUCT MOUNTED SMOKE DETECTORS AND ADDITIONAL DUCTWORK MUST BE INSTALLED BY THE TENANT.

C-LC09-M100-REV04



1 HVAC - EXISTING CONDITIONS

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

DESIGN & CONSTRUCTION MANAGEMENT:

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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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Engineer of Record

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PROJECT NUMBER: 25-0381

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
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☐ ADDENDUM

Sheet Name:
HVAC EXISTING CONDITIONS

Date 05/01/2026
Drawn By WNA
Checked By CJD

Sheet No.:
M100

5 AIR BALANCE REPORTS

G.C. RESPONSIBLE TO OBTAIN CERTIFIED AIR BALANCING REPORT FROM OWNER'S TAB VENDOR, MELINK.

G.C. TO COORDINATE WITH MELINK REGARDING SITE READINESS AND DATES OF INSPECTIONS AROUND TAB REPORTS, PRE-GRID WALK THROUGH AND COMMISSIONING. IF SITE IS NOT READY AND MELINK NEEDS TO RETURN TO PERFORM THEIR WORK, THE G.C. WILL BE RESPONSIBLE FOR ANY COSTS INCURRED FOR A REVISIT AS REQUIRED.

5-LC09-M200-REV04

6 FIRE STOPPING NOTE

PROVIDE FIRE STOPPING FOR ALL PENETRATIONS OF FIRE WALLS. PROVIDE THROUGH WALL FIRE STOPPING FOR ALL LOCATIONS WHERE JUNCTION BOXES ARE LOCATED IN A DEMISING WALL, OR OTHER FIRE WALL.

7-LC09-M200-REV04

4 TURN OVER NOTES

CONTRACTOR TO PROVIDE TO THE PM THE FOLLOWING PRIOR TO INITIAL PUNCHLIST:

ITEMS 'A' THRU 'C' TO BE PERFORMED BY GC PRIOR TO ITEM 'D'. UPON COMPLETION OF ITEMS 'A' THRU 'C', GC TO COORDINATE WITH MELINK TO PERFORM ITEM 'D'.

A. CHANGE FILTER MEDIA PRIOR TO TURN OVER.
B. DEMONSTRATE EQUIPMENT HEATS AND COOLS.
C. CLEAN DRAIN PANS PRIOR TO TURN OVER.
D. AIR BALANCE REPORT TO STATE EQUIPMENT INFORMATION INCLUDING:

- MODEL NUMBER, SERIAL NUMBER, RATED AND TESTED AMP DRAW, RATED AND TESTED VOLTAGE AND ANY ALTERATIONS OF THE EQUIPMENT REQUIRED TO ACHIEVE DESIGN AIR FLOW.
- AIR TEMPERATURE OF RETURN AT UNIT, SUPPLY UNIT, SPACE TEMPERATURE OF OCCUPIED AREA, AIR TEMPERATURE AT SUPPLY DIFFUSERS (ALL OF THEM), AIR TEMPERATURE IN THE PLENUM, AND OUTSIDE AIR TEMPERATURE AT TIME OF BALANCING.

NOTE: GC TO REVIEW DEFICIENCIES NOTED BY MELINK WITH PROJECT MANAGER, AND IDENTIFY ALL ITEMS TO BE COMPLETED AS PART OF THE GC PUNCHLIST.

4-LC09-M200-REV06

3 KEY NOTES - MECHANICAL PLAN

1. PROVIDE DAMPERS PER DETAIL C ON SHEET M001.
2. PROVIDE DUCT TAKE OFFS PER DETAIL A ON SHEET M001. HIGH EFFICIENCY FITTINGS SHALL BE USED.
3. LOCATION OF NEW THERMOSTATS FOR ERTU-1 & ERTU-2. INSTALL THERMOSTAT AT 44" AFF. VERIFY FINAL LOCATIONS WITH ESSILOR LUXOTTICA PROJECT MANAGER PRIOR TO ROUGH IN. PROGRAM AS REQUIRED, SEE INFORMATION ON DETAIL M010 ON SHEET M020.
4. LOCATION OF NEW REMOTE WIRED SENSOR FOR ERTU-1. INSTALL AT 60" AFF. PROGRAM TO ERTU-1 THERMOSTAT.
5. LOCATION OF NEW REMOTE WIRED SENSOR FOR ERTU-2. INSTALL AT 60" AFF. PROGRAM TO ERTU-2 THERMOSTAT. IF ADJACENT TO LIGHT SWITCH, VERTICALLY ALIGN THE SENSOR WITH THE SWITCH.
6. INSTALL NEW RESTROOM EXHAUST FAN IN LOCATION SHOWN. CONNECT NEW FAN TO EXISTING LANDLORD EXHAUST TERMINATION POINT WITH 6"Ø DUCT. VERIFY DUCTWORK ROUTING IN FIELD.
7. COVER EXISTING RETURN DUCT OPENING WITH 1'x1" STEEL MESH.
8. MOUNT TRANSFER GRILLE AS HIGH AS POSSIBLE.

3-LC09-M200-REV04

2 GRILLE, REGISTER AND DIFFUSER SCHEDULE

TAG	SERVICE	MOUNTING	MFR	MODEL No.	MODULE SIZE	FINISH	NOTES
S-1	SUPPLY AIR	MATCH CEILING	TITUS	OMNI	24" X 24"	PAINT TO MATCH CLG	1
S-2	SUPPLY AIR	MATCH CEILING	TITUS	OMNI	12" X 12"	PAINT TO MATCH CLG	1
R-1	RETURN AIR	MATCH CEILING	TITUS	50F	12" X 24"	PAINT TO MATCH CLG	1
R-2	RETURN AIR	MATCH CEILING	TITUS	50F	24" X 24"	PAINT TO MATCH CLG	1
T-1	TRANSFER AIR	MATCH WALL	TITUS	300RL	30" X 20"	PAINT TO MATCH WALL	

NOTES/ACCESSORIES

1. SEE ARCHITECTURAL RCP, SHEET A102, FOR PAINT COLOR FOR DIFFUSERS. PAINT DIFFUSER PRIOR TO INSTALLING INTO THE CEILING.

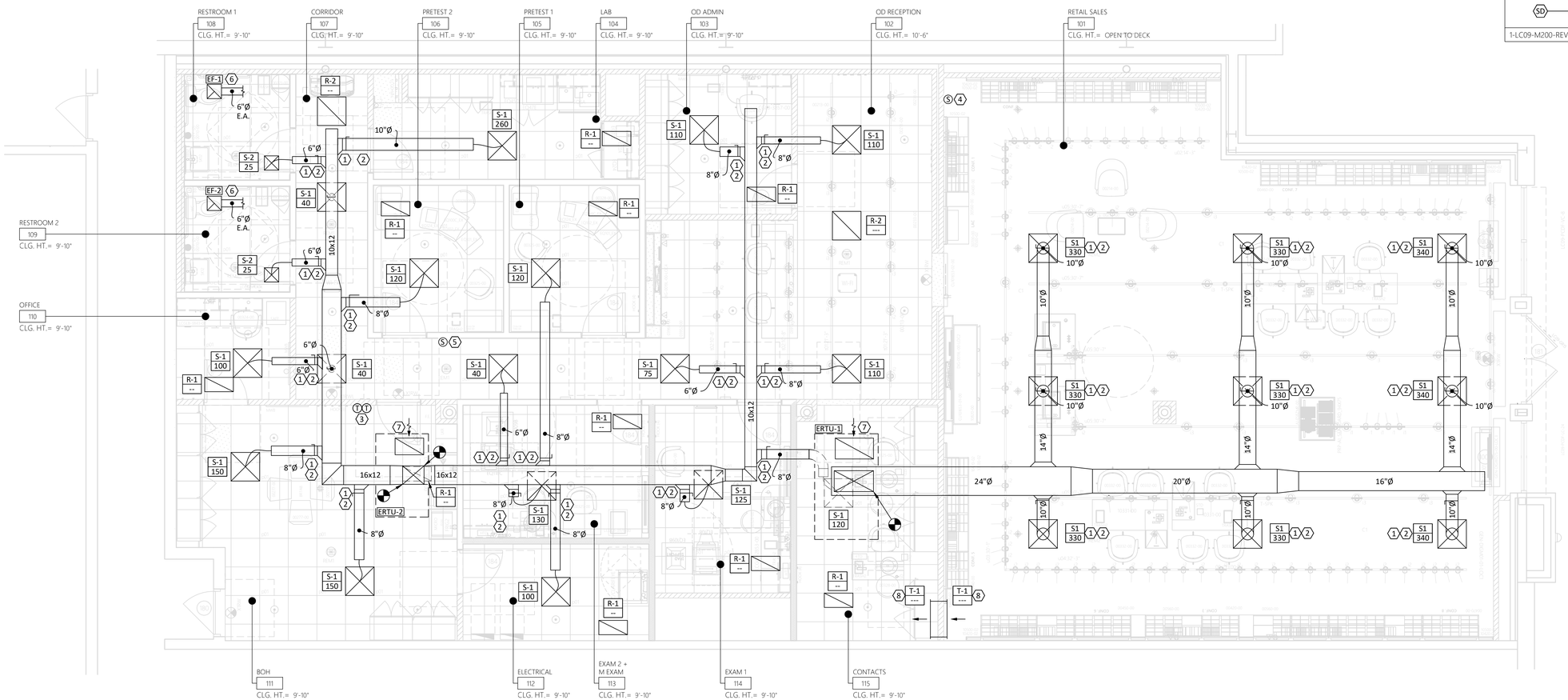
NOTE: MANUFACTURER LISTED IS TO GIVE DIRECTION ON STYLE AND QUALITY. IT IS NOT THE INTENT OF THE LISTING TO SINGLE LINE SPECIFY A PARTICULAR MANUFACTURER. IF SUBSTITUTING, PROVIDE SHOP DRAWINGS TO PROJECT MANAGER FOR APPROVAL.

2-LC09-M200-REV04

1 HVAC SYMBOLS

- SUPPLY AIR DIFFUSER
- RETURN AIR OR EXHAUST GRILLE (SEE TAG)
- 12"Ø — ROUND DUCTWORK
- 20x12 — RECTANGULAR DUCTWORK. SIZE IN INCHES, FIRST NUMBER IS SIDE SHOWN.
- A / B — DIFFUSER/GRILLE LABEL: A - TYPE/DESIGNATION; B - AIRFLOW (CFM)
- POINT OF CONNECTION - NEW TO EXISTING
- POINT OF DISCONNECTION
- MANUAL VOLUME DAMPER
- # — SHEET KEYNOTE REFERENCE
- CEILING EXHAUST FAN
- T — THERMOSTAT
- S — TEMPERATURE SENSOR
- SD — DUCT SMOKE DETECTOR

1-LC09-M200-REV04



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

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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By

Engineer of Record

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PROJECT NUMBER: 25-0381

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

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☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: HVAC PLAN

Date 05/01/2026
Drawn By WNA
Checked By CJD

Sheet No.: M200

2 PLUMBING SPECIFICATIONS

I. GENERAL PROVISIONS

A. GENERAL CONDITIONS, CODES & STANDARDS

1. GENERAL CONDITIONS OF THE CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) (NSPE)(NEC) AND ANY OF THE TENANT'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.
2. REFER TO THE GENERAL CONDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITIONS OF THE AIA FOR ADDITIONAL REQUIREMENTS REGARDING; SAFETY, COORDINATION & COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC.
3. ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCALLY ENFORCED, FEDERAL, STATE AND LOCAL CODES AND ORDINANCES INCLUDING ANY SPECIAL THE TENANT REQUIREMENTS IN ADDITION TO THOSE SPECIFIED.
4. GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.

B. SCOPE OF WORK

1. THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS A PART OF THE PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY SIMILAR INSTALLATIONS. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE TENANT. GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO PROVIDE THE TENANT A COMPLETE, CODE APPROVED AND OPERATIONAL PLUMBING SYSTEMS.
2. CAREFULLY READ SPECIFICATION FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR WITH ALL TRADES' WORK SCOPE. CONSULT WITH OTHER TRADES TO INSURE PROPER LOCATIONS AND AVOID INTERFERENCES. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE TENANT BEFORE WORK IS COMMENCED.
3. ALL CONTRACTORS SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND SPECIFICATIONS, NOTE THE EXISTING CONDITIONS AND OTHER WORK THAT WILL BE REQUIRED, AND THE NATURE OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. NO ALLOWANCE SHALL BE MADE TO ANY CONTRACTOR BY REASON OF THIS FAILURE TO HAVE MADE SUCH EXAMINATION OR OF ANY ERROR ON HIS PART.
4. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND SHALL BE FAMILIAR WITH THE LIMITS OF DEMOLITION REQUIRED FOR ALL TRADES. COORDINATE DEMOLITION WITH REQUIREMENTS OF NEW CONSTRUCTION PRIOR TO INITIATING WORK.
5. ALL EXISTING UTILITY AND MECHANICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE TENANT.
6. THIS GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE OPENINGS WITH THE GENERAL TRADES CONTRACTOR. THE FINAL LOCATIONS AND SIZES OF ALL DUCT AND LOUVER OPENINGS SHALL BE PROVIDED BY THIS CONTRACTOR.
7. THIS CONTRACT SHALL ALSO INCLUDE ALL LABOR, MATERIALS AND MISCELLANEOUS EXPENSES REQUIRED FOR ALL REQUIRED PLUMBING DEMOLITION OF THE EXISTING AREAS BEING RENOVATED.
   a. THE DEMOLITION SHALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED) OF ALL PLUMBING EQUIPMENT, PIPING, MATERIALS, ETC. NOT REQUIRED IN THE FINAL DESIGN AND INSTALLATION OF THE PLUMBING SYSTEMS FOR THE NEW RENOVATED AREAS.
   b. ALL UNDERGROUND SERVICES NOT BEING REUSED SHALL BE CAPPED BELOW THE FLOOR.
   c. ALL ABOVE GROUND SERVICES SHALL BE REMOVED BACK TO THEIR RESPECTIVE MAIN AND CAPPED OR IF THE MAIN IS NOT REQUIRED, THE MAIN SHALL BE REMOVED IN IT'S ENTIRETY.
   d. COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS AND THE ARCHITECT AND THE TENANT'S GENERAL REQUIREMENTS.
7. ALL WORK INCLUDING, BUT NOT LIMITED TO PARTS, MATERIAL, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE ENGINEER AND TENANT. WHERE AN EQUIPMENT MANUFACTURER HAS A WARRANTY THAT EXCEEDS ONE YEAR, THAT WARRANTY PERIOD SHALL APPLY TO THIS PROJECT.

C. DOCUMENTS

1. THE DRAWINGS ARE DIAGRAMMATIC, ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXISTING CONDITIONS OR COORDINATION ISSUES REQUIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE TENANT.
2. ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL APPARATUS SHALL BE INCLUDING IN BID.
3. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED EVEN THOUGH NOT MENTIONED IN BOTH.
4. IF ERRORS ARE FOUND IN THE DRAWINGS OR SPECIFICATIONS OR DISCREPANCIES OCCUR BETWEEN THE SAME, OR BETWEEN THE FIGURES ON THE DRAWINGS, AND THE SCALE OF SAME OR BETWEEN THE LARGER AND SMALLER DRAWINGS, OR IN THE DESCRIPTIVE MATTER ON THE DRAWINGS SHALL BE REFERRED TO THE TENANT FOR REVIEW AND FINAL DECISION PRIOR TO THE BID DUE DATE.
5. THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY AS AN ALTERNATE TO THE SPECIFIED EQUIPMENT AND MATERIAL.
   a. SUBSTITUTIONS
      i. THE MANUFACTURERS AND MODEL NUMBERS INDICATED IN THE CONTRACT DOCUMENTS ARE FOR THE PURPOSE OF DESCRIPTION AND TO ESTABLISH A BASE LEVEL OF QUALITY. THE GENERAL CONTRACTOR'S BID WILL CONTEMPLATE THE USE OF THE EQUIPMENT AND MATERIALS EXACTLY AS INDICATED.
      ii. THE GENERAL CONTRACTOR SHALL SUBMIT FOR APPROVAL, WITH HIS BID QUOTATION, A LIST OF ANY PROPOSED SUBSTITUTIONS OF MATERIALS AND EQUIPMENT FOR THOSE ON WHICH THE ORIGINAL DESIGN WAS BASED. A FULL DESCRIPTION OF ALL PROPOSED SUBSTITUTED ITEMS, THE CHANGE TO THEIR BID PRICE OR OTHER REASONS FOR SUCH SUBSTITUTIONS SHALL ACCOMPANY THE BID. ALL ACCESSORIES, FEATURES, ETC., SUPPLIED WITH THE SUBSTITUTED MANUFACTURER'S PRODUCT SHALL ALSO BE INCLUDED IN THE BID.
      iii. IF THE GENERAL CONTRACTOR DOES NOT SUBMIT PROPOSED SUBSTITUTIONS WITH THEIR BID THE TENANT SHALL CONSIDER THE BIDDER TO BE PROPOSING THE MANUFACTURERS AND MODEL NUMBERS SPECIFIED HEREIN AND SHOWN ON THE CONTRACT DRAWINGS.
      iv. SUBSTITUTIONS AFTER CONTRACT AWARD SHALL NOT BE PERMITTED.
6. MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURE PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET IN THESE SPECIFICATIONS. REFER TO EACH SECTION FOR ANY SPECIFIC REQUIREMENTS.

D. COORDINATION

1. GENERAL CONTRACTOR SHALL INCLUDE A VISIT TO THE JOB SITE AND TAKE INTO CONSIDERATION MECHANICAL, ELECTRICAL AND GENERAL TRADE WORK CURRENTLY EXISTING AND WORK WHICH MAY BE INSTALLED PRIOR TO CONTRACT AWARD. RELOCATION OF DUCTWORK, PIPING AND EQUIPMENT, AS REQUIRED, TO AVOID THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE TENANT.
2. GENERAL CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE BUILDING SITE BEFORE STARTING ANY FABRICATION OR DOING ANY WORK IN THE FIELD AND SHALL BE RESPONSIBLE FOR THE CORRECT AND PROPER MEASUREMENTS OF HIS WORK ALONG WITH RESOLUTIONS FOR ANY CONFLICT OF SPACE WITH OTHER TRADES.
3. WHERE THE WORK OF TWO OR MORE TRADES INTERFERE WITH EACH OTHER AND A DEVIATION FROM DESIGN IS NECESSARY, NEITHER WORK SHALL PROCEED UNTIL THE TENANT HAS BEEN NOTIFIED OF THE CONFLICT AND THEY HAVE RENDERED A DECISION AS TO WHAT CHANGES SHOULD BE MADE.
4. GENERAL CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINED OPERATIONAL AND SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL COSTS FOR REPAIR OF DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE GENERAL CONTRACTOR CAUSING THE DAMAGE.
5. IT IS ESSENTIAL THAT ALL WORK AT THE PROJECT BE DONE AS SUCH TIME AND IN SUCH MANNER AS NOT TO INTERFERE WITH THE NORMAL OPERATIONS OF THE FACILITY. A WORK SCHEDULE SHALL BE ARRANGED WITH THE TENANT TO FACILITATE WORK WITH A MINIMUM OF INTERFERENCE WITH THE TENANT'S OPERATIONS.
6. AREAS TO BE USED FOR STORAGE SHALL BE ONLY AS DIRECTED BY THE TENANT. ALL STORED MATERIAL SHALL BE RELOCATED OR REMOVED FROM THE SITE AS DIRECTED BY THE TENANT.
7. DAILY, AND AT THE COMPLETION OF THE WORK, EACH GENERAL CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS AND DEBRIS CAUSED BY HIS WORK. UPON COMPLETION OF EACH GENERAL CONTRACTOR'S WORK, CONDITIONS OF THE SPACE(S) SHALL BE THE SAME AS FOUND PRIOR TO COMMENCEMENT OF THE WORK. FAILURE TO DO SO MAY RESULT IN THE TENANT'S EMPLOYMENT OF A SEPARATE SERVICE TO OBTAIN THIS CONDITION AND REDUCING THE FACTOR'S CONTRACT AMOUNT BY THE COST OF SUCH A SERVICE.
8. EACH GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROUGH THE NEGLECT OF HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE AS DIRECTED BY THE TENANT BY THE CRAFTSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.

E. METHODS

1. EXCAVATIONS SHALL BE MADE IN OPEN TRENCHES. FLOORS SHALL BE SAW CUT. PIPING SHALL BE LAID ON AN APPROPRIATELY GRADED 6" BED OF CLEAN AND DRY SAND. ENGINEERED FILL SHALL BE USED TO BACKFILL TO 6" ABOVE THE PIPING. BACKFILL THE REMAINDER OF THE TRENCH UTILIZING THE EXCAVATED MATERIAL IF APPROVED BY THE ARCHITECT OR THE TENANT. IF THE EXCAVATED MATERIALS ARE NOT ACCEPTABLE, ENGINEERED FILL ACCEPTABLE TO THE ARCHITECT SHALL BE UTILIZED TO BACKFILL THE REMAINDER OF THE TRENCH. BACKFILL SHALL BE ACCOMPLISHED IN 9" LIFTS WITH ALL LIFTS COMPACTED TO 95% PROCTOR. PATCH FLOOR TO MATCH EXISTING.
2. EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL NOT BE SUPPORTED FROM ANY CEILINGS, OTHER PIPING, CONDUIT OR DUCTWORK, ROOF DECK, OR JOIST BRIDGING. ITEMS SHALL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
3. ALL ROOF PENETRATIONS, FLASHING AND COUNTER FLASHING SHALL BE PERFORMED BY THE TENANT'S ROOFING CONTRACTOR AT THE REQUESTING GENERAL CONTRACTORS COST.

II. INSULATION

A. GENERAL

1. INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.
2. CLEAN AND DRY SURFACES PRIOR TO INSULATING.
3. EXTEND INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, HANGERS AND SIMILAR PENETRATIONS.
4. INSULATION JACKET AND FITTING COVER MUST BE PLENUM RATED.
5. IT IS ESSENTIAL THAT THE INTEGRITY OF THE VAPOR-BARRIER BE MAINTAINED. SEAL ALL PENETRATIONS OF THE VAPOR BARRIER BY STAPLES, HANGERS OR WHERE OTHERWISE DAMAGED.
6. MAINTAIN ACCESS TO BALANCING DAMPERS AND VALVES.
7. INSULATION SHALL BE BY OWENS-CORNING, KNAUF, OR MANVILLE.

B. PLUMBING

1. ALL ABOVE GROUND PIPING SHALL BE INSULATED WITH FIBERGLASS PIPING INSULATION WITH AN ALL SERVICE JACKET AND SELF SEALING LAP (ASJ/SSL).
   a. DOMESTIC HOT AND COLD WATER PIPING UP TO 3/4 INCH DIAMETER - 1/2 INCH THICK.
2. FITTINGS AND VALVES SHALL BE INSULATED WITH PRE-MOLDED FIBERGLASS FITTINGS AND COVERED WITH A PRE-FORMED PVC FITTING COVER.

III. PLUMBING

A. GENERAL

1. THE ENTIRE PLUMBING INSTALLATION, MATERIALS, EQUIPMENT, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE LANDLORD, LOCALLY ENFORCED BUILDING CODE, THE PLUMBING CODE, THE AMERICAN DISABILITIES ACT GUIDELINES, ANSI A117.1 REQUIREMENTS FOR THE PHYSICALLY CHALLENGED AND THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS). GENERAL CONTRACTOR TO VERIFY ALL PLUMBING ROUGH IN DIMENSIONS MEET THE ABOVE NOTED REQUIREMENTS. VERIFY FINAL ROUGH IN WITH ARCHITECT PRIOR TO BACKFILLING OR WALL INSTALLATION.
2. TEST ALL SEWER AND WATER PIPING IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
3. FURNISH ACCESS DOORS FOR WALL CLEAN OUTS AND VALVES IN WALLS.
4. ALL FIXTURES AND EQUIPMENT NOT SPECIFIED HERE-IN ARE BEING PROVIDED BY OTHERS. THIS GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ROUGHING IN ALL SERVICES FOR ALL EQUIPMENT WHETHER PROVIDED BY THIS GENERAL CONTRACTOR OR OTHERS. GENERAL CONTRACTOR SHALL COORDINATE HIS INSTALLATION WITH THE APPROPRIATE EQUIPMENT SUPPLIER FOR PROPER ROUGH IN INFORMATION AND SHALL REVISE THE DESIGN AS REQUIRED TO MATCH THE EQUIPMENT BEING SUPPLIED. THIS GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO CONNECT ALL FIXTURES TO THE PLUMBING SYSTEMS INCLUDING BUT NOT LIMITED TO; ALL WATER OR NATURAL GAS CONNECTIONS FROM APPROPRIATE STOP OR VALVE, ALL DIRECT SANITARY CONNECTIONS, ALL INDIRECT WASTE CONNECTIONS TO FLOOR DRAINS OR SINKS FROM SINKS OR EQUIPMENT, COOLER AND FREEZER COIL CONDENSATE DRAIN PIPING, ETC.
5. FIRE STOPPING - REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE AND UL CONSTRUCTION DESIGN NUMBER. FOR RATED MASONRY WALL AND FLOOR ASSEMBLIES, PROVIDE A UL APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM NUMBER C-AJ-1175. FOR RATED GYPSUM BOARD ASSEMBLIES, PROVIDE A UL APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM NUMBER W-L-1003.

B. PIPING

1. PIPE HANGERS FOR THE PLUMBING SYSTEM SHALL BE ADJUSTABLE CLEVIS HANGERS WITH APPROPRIATE CLAMP. ALL PIPING SHALL BE SUPPORTED ON A MAXIMUM SPACING OF:
   a. 6' CENTERS FOR PIPING 3/4" AND SMALLER.
   b. 8' CENTERS FOR 1" PIPING.
   c. 10' CENTERS FOR PIPING LARGER THAN 1".
   d. PIPING ABOVE THE ROOF SHALL BE SUPPORTED PER THE DETAIL ON THE DRAWINGS.
   e. PIPE HANGERS FOR INSULATED PIPING SYSTEMS SHALL BE SIZED FOR THE GROSS OUTSIDE DIMENSION OF THE PIPE AND INSULATION. SEE INSULATION SPECIFICATIONS FOR INSULATION REQUIREMENTS.

C. SANITARY AND VENT

1. ALL PIPING SHALL PITCH TO ITS APPROPRIATE MAIN AT NO LESS THAN 1/4" PER FOOT SLOPE
2. UNDERGROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 DWV-PVC WITH SOLVENT WELD SOCKET FITTINGS UNLESS OTHERWISE RESTRICTED BY LANDLORD OR LOCAL MUNICIPALITIES. PVC SHALL NOT BE USED IN ANY RETURN AIR PLENUM SPACES.
3. ABOVE GROUND WASTE AND VENT PIPING (3" AND LARGER) SHALL BE HUB AND SPIGOT CAST IRON PIPE WITH LEAD AND OAKUM JOINTS AND BE HUNG PER C.I.S.P.I. REQUIREMENTS.

D. DOMESTIC WATER

1. GENERAL CONTRACTOR SHALL COORDINATE WITH THE BUILDING TENANT AND THE LOCAL WATER COMPANY FOR THE INSTALLATION OF A NEW WATER METER. THIS SHALL INCLUDE THE FEES/COSTS AND INSTALLATION OF A NEW WATER METER AS SHOWN ON THE PLANS AND THE ASSOCIATED REMOTE READER. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL WATER COMPANY. LOCATE REMOTE READER AT BUILDING TENANT'S AND WATER COMPANY'S DIRECTION.
2. TEST WATER PIPING TO HYDROSTATIC PRESSURE OF 100 PSIG. FOR TWO HOURS. STERILIZE ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH A.W.W.A. STANDARDS.
3. ABOVE GROUND WATER PIPING, 3" AND SMALLER, SHALL BE TYPE "L" HARD DRAWN COPPER PIPE WITH WROUGHT COPPER FITTINGS AND 95-5 SOLDERED JOINTS. AS AN ALTERNATE THE GENERAL CONTRACTOR MAY UTILIZE COPPER PRESS FITTINGS (PROPRESS SYSTEM) AS MANUFACTURED BY VIEGA. FITTINGS SHALL CONFORM TO THE MATERIAL AND SIZING REQUIREMENTS OF ASME B16.18 OR ASME B16.22. O-RINGS FOR FITTINGS SHALL BE EDPM. INSTALLATION OF FITTINGS SHALL CONFORM TO CODE AND THE MANUFACTURER'S SPECIFICATIONS/REQUIREMENTS. WATER PIPING JOINTS BETWEEN DIFFERENT MATERIALS SHALL BE PER THE LOCALLY ENFORCED PLUMBING CODE SECTION 605.22.
4. DOMESTIC WATER VALVES SHALL BE MILWAUKEE VALVE #BA-100 OR #BA-150 BALL VALVE. ALL VALVES SHALL BE LEAD-FREE.

1 PLUMBING EQUIPMENT SCHEDULE

GENERAL NOTE: FOLLOW ALL MANUFACTURERS INSTALLATION AND MAINTENANCE INSTRUCTIONS.

ITEM	MARK	DESCRIPTION	SUPPLIED/ INSTALLED BY	MANUF.	MODEL # / COLOR	REMARKS
FLOOR MOUNTED ONE PIECE WATER CLOSET (ADA)	WC-1	FLOOR MOUNTED, ONE PIECE WATER CLOSET, LEFT HAND TRIP, 1.28GPF	PC / PC	AMERICAN STANDARD (800) 217-1929	AMERICAN STANDARD #238AA104.020	CHECK PLANS FOR TRIP HANDLE PRIOR TO ORDERING.
SINKS	SK3.1	ROUND SINK FOR CONTACT LENS with WHITEHAUS MANUAL FAUCET	PC / PC	HOUZER & WHITEHAUS	SINK: HOUZER CRT-1620 FAUCET: WHITEHAUS WHS8601-SB-BSS and 0.5 GPM AERATOR	GC TO MAKE FINAL CONNECTIONS. INSTALL THERMOSTATIC MIXING VALVE BELOW FIXTURE. CONNECT TO SUPPLY PIPING AT FIXTURE, SET WATER TEMP. @ 110° F USING TMV-1 (WATTS OR EQUAL). SEE DETAIL PD211 & PD214 ON DRAWING P010 FOR PIPING ARRANGEMENT.
	SK12	WALL HUNG, WHITE VITREOUS CHINA LAVATORY, SINGLE HOLE, CENTER SET, ACRYLIC KNEE SHROUD, ADA COMPLIANT with DELTA MANUAL FAUCET	PC / PC	AMERICAN STANDARD & DELTA	SINK: AMERICAN STANDARD DECORUM 9134001EC, WHITE, SINGLE HOLE, WALL MOUNTED FAUCET: DELTA 559LF-SSPP and 0.5 GPM AERATOR	COORDINATE WITH MANUFACTURER FOR FIXTURE SUPPORT AND PROVIDE. INSTALL THERMOSTATIC MIXING VALVE BELOW FIXTURE. CONNECT TO SUPPLY PIPING AT FIXTURE, SET WATER TEMP. @ 110° F USING TMV-1 (WATTS OR EQUAL).
BI-LEVEL WATER COOLER	EWC3	WALL HUNG, BARRIER FREE, ELECTRIC, 120V 60Hz 1PH, 3-WIRE GROUND CORD; PLATINUM VINYL FINISH; 8.0 GPH; SELF- CONTAINED REFRIGERATION CONTROLS, PUSH BAR CONTROLS AT FRONT AND SIDE; 3/8" SUPPLY CONNECTION; 1-1/2" OD WASTE CONNECTION	PC / PC	ELKAY	LZOTL8WSSK	MAINTAIN 6" MIN. TO WALL ON EA. SIDE FOR VENTILATION MOUNTING HEIGHT PER CODE.
MOP SINK	MS	ONE PIECE MOLDED STONE MOP BASIN W/ 10" HIGH SIDES FOR RECESSED INSTALLATION, 3" BASIN DRAIN W/ SERVICE SINK STRAINER	PC / PC	FIAT PRODUCTS	SINK: MSB2424, FAUCET: #830-AA W/ WALL BRACE, 30" HOSE & BRACKET: #832-AA, MOP HANGER: #889-CC	COORDINATE LOCATION OF MOP HOLDER. THE SPECIFIED FAUCET HAS A VACUUM BREAKER INTEGRAL WITH THE UNIT.
WATER HEATER	WH	STORAGE WATER HEATER. TANK SHALL BE GLASS LINED, 150 PSI WORKING PRESSURE. DRAIN INDIRECTLY TO MOP SINK BELOW.	PC / PC	AO SMITH	#DEL-20, 20 GALLONS, 5.0KW HEATING ELEMENT, 208V/1P COMMERCIAL ELECTRIC WATER HEATER	REFER TO PLUMBING PLAN FOR LOCATION
PORTABLE EYE WASH	EW-P	THERE IS NO PLUMBING CONNECTION FOR THIS. IT IS SHOWN ON THE SCHEDULE FOR THE PC TO UNDERSTAND THERE IS NO WORK FOR THEM.	T / T			
PIPING SUPPORTS		WATER HAMMER ARRESTORS	PC / PC	WATTS/GRAINGER	#26X567	ADJUST PRESSURE SETTING FOR 60 PSI
FLOOR DRAINS	FD1	CAST IRON FLOOR DRAIN W/ DOUBLE DRAINAGE FLANGE, TAP FOR TAP PRIMER, WEEP HOLES, 3" OUTLET & 6" NICKEL BRONZE ADJUSTABLE STRAINER.	PC / PC	J.R. SMITH	J.R. SMITH # 2005-A-06	
FLOOR CLEANOUTS	FCO	REFER TO SHEET P200	PC / PC	J.R. SMITH	4000 SERIES	REFER TO PLUMBING PLAN FOR LOCATION
WALL CLEANOUTS	WCO	REFER TO SHEET P200	PC / PC	J.R. SMITH	4000 SERIES	REFER TO PLUMBING PLAN FOR LOCATION
WATER DISPENSER	WD	WALL BOX INSTALLED BELOW COUNTER FOR WATER DISPENSER	PC / PC	OATEY	MODA	REFER TO PLUMBING PLAN FOR LOCATION
TRAP PRIMER VALVE	TPV	VALVE TO AUTOMATICALLY ADD WATER TO DRAIN LINE TRAP	PC / PC	PPP, INC	PRO1-500 UNDER LAVATORY	REFER TO PLUMBING PLAN FOR LOCATION
RECIRCULATION PUMP	RP1	PUMP TO RECIRCULATE HOT WATER RETURN	PC / PC	BELL & GOSSETT	NBF-18S	90 WATT, 120V, 1 PHASE, 3000 RPM, 1 GPM @ 15 FT WC, WITH AQUASTAT AND UNION. PROVIDE CHECK VALVE AND REQUIRED ACCESSORIES. PUMP TO OPERATE WHEN WATER FLOW IS DETECTED AND SHUT OFF WHEN SETPOINT TEMPERATURE IS REACHED.
VALVES	TMV-1	THERMOSTATIC MIXING VALVE	PC / PC	SYMMONS	C-225-CK "MAXLINE"	CERTIFIED TO MEET ANSI/ASSE 1070 AND LOW LEAD REQUIREMENTS OF WETTED SURFACE AREA CONTAINING LESS THAN .25% LEAD BY WEIGHT
DOMESTIC WATER EXPANSION TANK	ET	IN-LINE THERMAL ABSORBER, 0.9 GALLON MAXIMUM ACCEPTANCE VOLUME.	PC / PC	AMTROL	ST-5	PROVIDE HANGING SUPPORT INDEPENDENT OF WATER OR OTHER SERVICE PIPING.

1-LC09-P001-REV06

3 RESPONSIBILITY SCHEDULE (PLUMBING)

T= TENANT
GC= GENERAL CONTRACTOR
LL= LANDLORD
MW= MILLWORKER
N/A= NOT APPLICABLE

DIVISION 15000 - PLUMBING	SUPPLIED BY (SUPL)	RECEIVED BY (RCV)	INSTALLED BY (INST)	EXISTING (EXG)	T & R (T&R)	RELOCATE & REPAIR (RELO)	REMARKS
ROOF WORK	GC	GC	GC				GC TO COORD. W/ LANDLORD
PLUMBING FIXTURES	GC	GC	GC				PROVIDE NEW. SEE PLUMBING DRAWINGS P200 & P210 FOR SCOPE OF WORK
OD SINKS, DRAINS, FAUCETS	GC	GC	GC				GC TO MAKE FINAL CONNECTIONS.
FLOOR DRAINS / PIPING / SUPPORTS	GC	GC	GC				PROVIDE NEW. SEE PLUMBING DRAWINGS P200 & P210 FOR SCOPE OF WORK
FLOOR AND WALL CLEANOUTS	GC	GC	GC				PROVIDE NEW. SEE PLUMBING DRAWINGS P200 & P210 FOR SCOPE OF WORK
WATER AND SEWER CONNECTION	GC	GC	GC	●			SEE PLUMBING DRAWINGS P200 & P210 FOR SCOPE OF WORK
WATER HEATER	GC	GC	GC				PROVIDE NEW. SEE PLUMBING DRAWING P200 FOR SCOPE OF WORK
WATER METER				●			EXISTING TO REMAIN.
BACKFLOW PREVENTER				●			EXISTING TO REMAIN.
DRINKING FOUNTAIN	GC	GC	GC				PROVIDE NEW. SEE PLUMBING DRAWINGS P200 & P210 FOR SCOPE OF WORK
CAMERA / VIDEO OF EXISTING SANITARY LINES	GC	GC	GC				FOOTAGE TO BE SENT TO LUXOTTICA P.M. UPON COMPLETION OF JOB.

3-LC09-P001-REV05

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LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

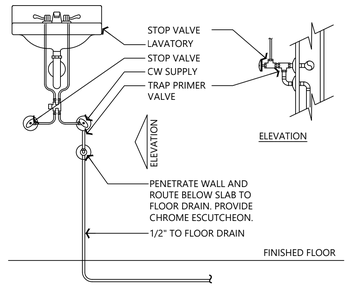
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☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
PLUMBING GENERAL NOTES & DETAILS

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: P001

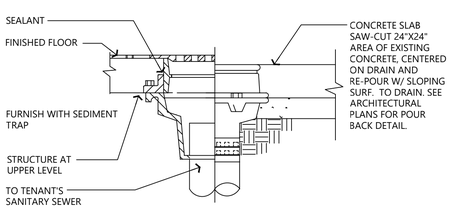
1 TRAP PRIMER DETAIL



PD200

PD200-LC09-P010-REV04

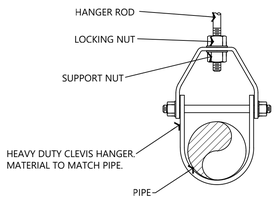
2 TYPICAL FLOOR DRAIN DETAIL



PD201

PD201-LC09-P010-REV04

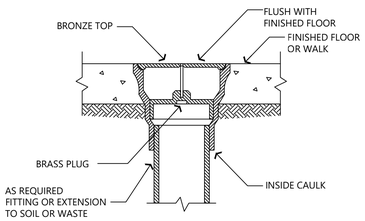
3 UNINSULATED PIPE SUPPORT DETAIL



PD202

PD202-LC09-P010-REV04

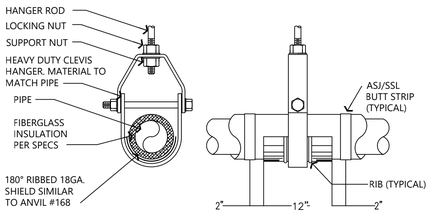
4 TYPICAL FLOOR CLEAN OUT DETAIL



PD203

PD203-LC09-P010-REV04

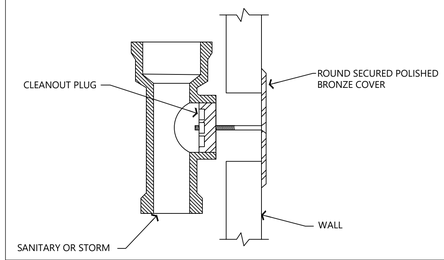
5 INSULATED PIPE SUPPORT DETAIL



PD204

PD204-LC09-P010-REV04

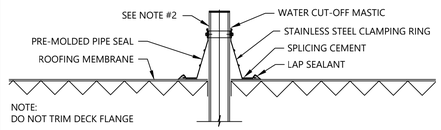
6 WALL CLEAN OUT DETAIL



PD205

PD205-LC09-P010-REV04

10 PIPE THROUGH ROOF DETAIL



NOTE:
DO NOT TRIM DECK FLANGE

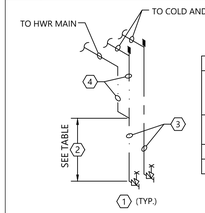
DETAIL NOTES

1. PRE-MOLDED PIPE SEAL CANNOT BE CUT VERTICALLY TO BE INSTALLED.
2. PRE-MOLDED PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE REGARDLESS OF PIPE DIAMETER.
3. WHEN PREFABRICATED PIPE SEAL CANNOT BE INSTALLED, USE FIELD FABRICATED PIPE SEAL. SEE ALTERNATE PIPE FLASHING DETAIL.
4. FOR BALLAST SYSTEMS, REPLACE BALLAST AFTER WORK IS COMPLETED.
5. FLANGE SHALL BE SET BY ROOFER. COORDINATE WITH ROOFING CONTRACTOR.
6. VENTS SHALL BE A MINIMUM OF 15'-0" FROM AIR INTAKES.

PD210

PD210-LC09-P010-REV04

8 HOT WATER SUPPLY PIPING AT POINT OF USE



MAXIMUM HW BRANCH PIPE LENGTHS		
DISTANCE IS TO BE MEASURED FROM THE POINT AT WHICH THE SUPPLY PIPING CONNECTS TO THE HOT WATER MAIN TO THE FIXTURE.		
	DISTANCE SHOWN - NOTE 2	
PIPE DIAMETER	PUBLIC LAVS	OTHER FIXTURES
1/2"	2 FT	43 FT
3/4"	0.5 FT	21 FT

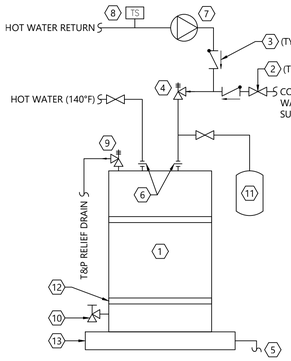
NOTES

1. HOT WATER PIPING SHOWN ON FLOOR PLANS AND ISOMETRIC IS SHOWN FOR PLAN CLARITY. HOT WATER PIPING SHALL LOOP DOWN INTO WALL AS SHOWN.
2. SEE TABLE FOR MAXIMUM ALLOWED DISTANCE OF PIPING FROM HOT WATER MAIN TO FIXTURE.
3. PIPE SIZE TO FIXTURE PER PLANS.
4. PIPE SIZE FOR HOT WATER DISTRIBUTION PIPING PER PLANS.

PD207

PD207-LC09-P010-REV04

9 WATER HEATER PIPING DETAIL



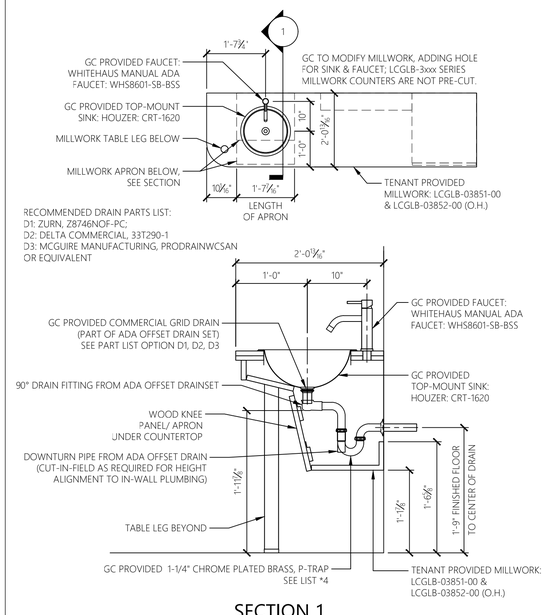
WH DETAIL NOTES	#
WATER HEATER	1.
SHUT-OFF VALVE (BALL VALVE)	2.
CHECK VALVE	3.
VACUUM BREAKER	4.
EXTEND FULL SIZED COPPER DRAIN LINE TO EXISTING HUB DRAIN.	5.
DIELECTRIC UNION	6.
HW RECIRCULATING PUMP	7.
AQUASTAT (SET AT 105°F)	8.
T&P RELIEF VALVE - PIPE COPPER DISCHARGE PIPING TO APPROVED RECEPTOR	9.
DRAIN VALVE	10.
EXPANSION TANK (ET)	11.
WATER HEATER SHALL BE ANCHORED OR STRAPPED TO WALL TO PREVENT MOVEMENT.	12.
GALVANIZED SHEET METAL OVERFLOW PAN. (MINIMUM 2" DEEP) PROVIDE SILICON SEALER BETWEEN STAND AND EDGE OF PAN.	13.

PD209

PD209-LC09-P010-REV04

11 SK3.1 CASEWORK & PIPING DETAIL

FOR CASEWORK: LCGLB-03851-00 / LCGLB-03852-00 (O.H.)



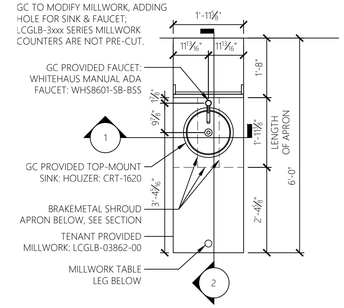
SECTION 1

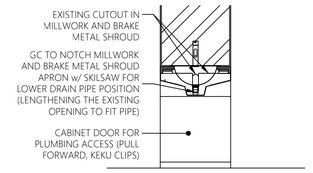
PD211

PD211-LC09-P010-REV01

14 SK3.1 CASEWORK & PIPING DETAIL

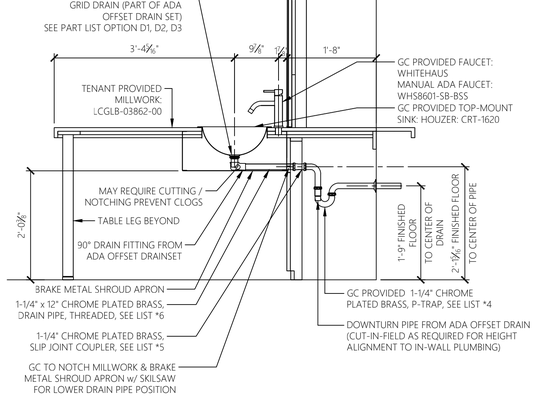
FOR CASEWORK: LCGLB-03862-00





SECTION 1

RECOMMENDED DRAIN PARTS LIST:
D1: ZURN, Z8746NOF-PC;
D2: DELTA COMMERCIAL, 33T290-1
D3: MCGUIRE MANUFACTURING, PRODRAINWCSAN
OR EQUIVALENT



SECTION 2

PD214

PD214-LC09-P010-REV01

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SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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Engineer of Record

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724.368.8133 | 412.208.1372 | 215.885.5900
PROJECT NUMBER: 25-0381

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: **12**

EssilorLuxottica Project Number: 101653

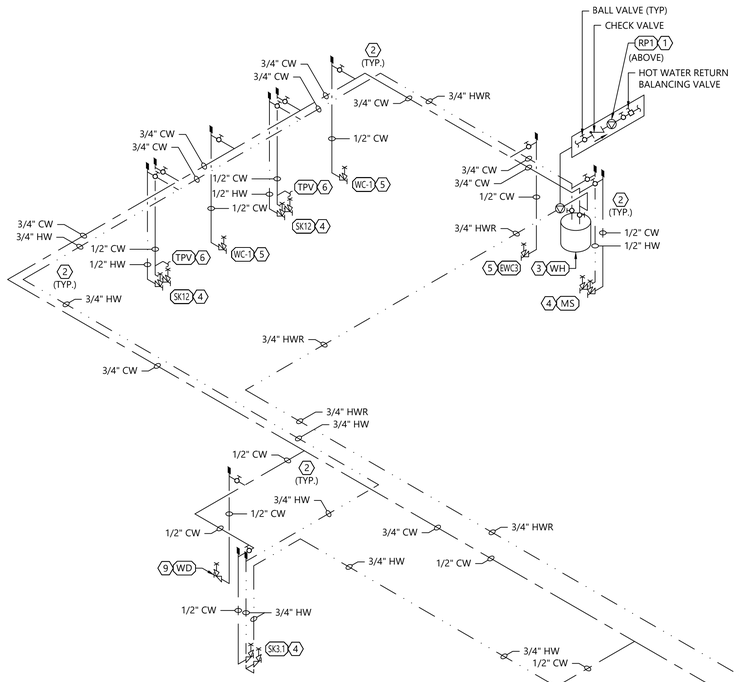
Brand Design Type: **LC10**

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☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: PLUMBING DETAILS

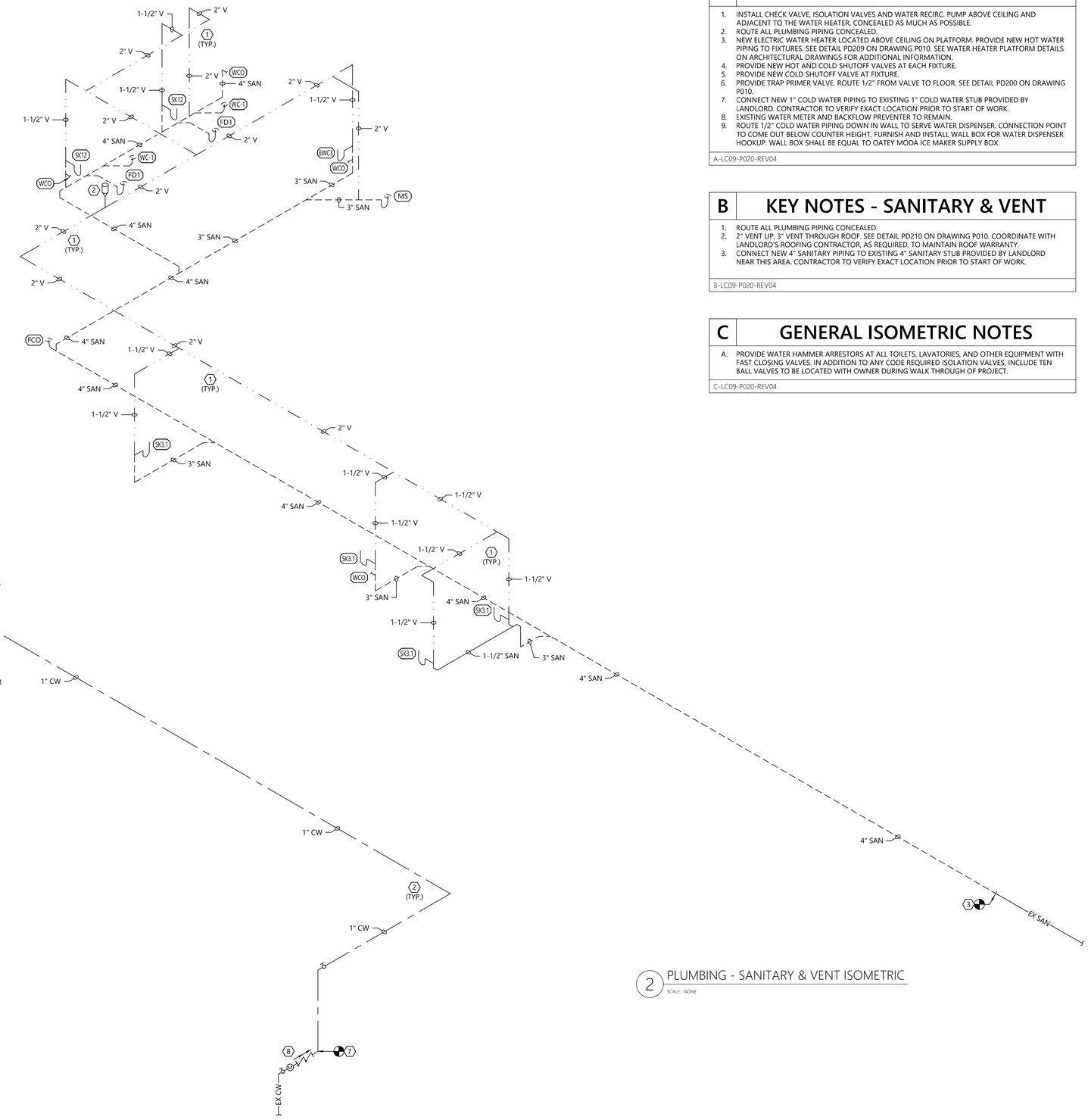
Date: 05/15/2026
Drawn By: WNA
Checked By: CJD

Sheet No.: P010



1 PLUMBING - SUPPLY ISOMETRIC

SCALE: NONE



2 PLUMBING - SANITARY & VENT ISOMETRIC

SCALE: NONE

A KEY NOTES - SUPPLY

1. INSTALL CHECK VALVE, ISOLATION VALVES AND WATER RECIRC. PUMP ABOVE CEILING AND ADJACENT TO THE WATER HEATER, CONCEALED AS MUCH AS POSSIBLE.
2. ROUTE ALL PLUMBING PIPING CONCEALED.
3. NEW ELECTRIC WATER HEATER LOCATED ABOVE CEILING ON PLATFORM. PROVIDE NEW HOT WATER PIPING TO FIXTURES. SEE DETAIL PD209 ON DRAWING P010. SEE WATER HEATER PLATFORM DETAILS ON ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. PROVIDE NEW HOT AND COLD SHUTOFF VALVES AT EACH FIXTURE.
5. PROVIDE NEW COLD SHUTOFF VALVE AT FIXTURE.
6. PROVIDE TRAP PRIMER VALVE. ROUTE 1/2" FROM VALVE TO FLOOR. SEE DETAIL PD200 ON DRAWING P010.
7. CONNECT NEW 1" COLD WATER PIPING TO EXISTING 1" COLD WATER STUB PROVIDED BY LANDLORD. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO START OF WORK.
8. EXISTING WATER METER AND BACKFLOW PREVENTER TO REMAIN.
9. ROUTE 1/2" COLD WATER PIPING DOWN IN WALL TO SERVE WATER DISPENSER. CONNECTION POINT TO COME OUT BELOW COUNTER HEIGHT. FURNISH AND INSTALL WALL BOX FOR WATER DISPENSER HOOKUP. WALL BOX SHALL BE EQUAL TO OATEY MODA ICE MAKER SUPPLY BOX.

A-LC09-P020-REV04

B KEY NOTES - SANITARY & VENT

1. ROUTE ALL PLUMBING PIPING CONCEALED.
2. 2" VENT UP, 3" VENT THROUGH ROOF. SEE DETAIL PD210 ON DRAWING P010. COORDINATE WITH LANDLORD'S ROOFING CONTRACTOR, AS REQUIRED, TO MAINTAIN ROOF WARRANTY.
3. CONNECT NEW 4" SANITARY PIPING TO EXISTING 4" SANITARY STUB PROVIDED BY LANDLORD NEAR THIS AREA. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO START OF WORK.

B-LC09-P020-REV04

C GENERAL ISOMETRIC NOTES

A. PROVIDE WATER HAMMER ARRESTORS AT ALL TOILETS, LAVATORIES, AND OTHER EQUIPMENT WITH FAST CLOSING VALVES. IN ADDITION TO ANY CODE REQUIRED ISOLATION VALVES, INCLUDE TEN BALL VALVES TO BE LOCATED WITH OWNER DURING WALK THROUGH OF PROJECT.

C-LC09-P020-REV04

DESIGN & CONSTRUCTION MANAGEMENT:

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+1 212.302.1200

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755 NJ-18
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EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

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Engineer of Record

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PROJECT NUMBER: 25-0381

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

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☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: PLUMBING ISOMETRICS

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: P020

D KEY NOTES - SUPPLY

1. NEW WATER HEATER INSTALLED ABOVE CEILING ON PLATFORM. SEE DETAIL PD209 ON DRAWING P010. SEE WATER HEATER PLATFORM DETAILS ON ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE TRAP PRIMER VALVE. ROUTE 1/2" FROM VALVE TO FLOOR. SEE DETAIL PD200 ON DRAWING P010.
3. EXISTING WATER METER AND BACKFLOW PREVENTER TO REMAIN.
4. CONNECT NEW 1" COLD WATER PIPING TO EXISTING 1" COLD WATER STUB PROVIDED BY LANDLORD. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO START OF WORK.
5. ROUTE 1/2" COLD WATER PIPING DOWN IN WALL TO SERVE WATER DISPENSER. CONNECTION POINT TO COME OUT BELOW COUNTER HEIGHT. FURNISH AND INSTALL WALL BOX FOR WATER DISPENSER HOOKUP. WALL BOX SHALL BE EQUAL TO OATEY MODA ICE MAKER SUPPLY BOX.
6. 3/4" HOT WATER PIPING DOWN IN WALL TO SERVE SINK. PIPING MUST BE WITHIN 2 FEET OF FIXTURE. 3/4" HOT WATER PIPING UP TO ABOVE CEILING. SEE DETAIL PD207 ON DRAWING P010.
7. 3/4" HOT WATER RETURN PIPING UP TO ABOVE CEILING.
8. 3/4" HOT WATER PIPING DOWN IN WALL TO SERVE SINK. PIPING MUST BE WITHIN 2 FEET OF FIXTURE. SEE DETAIL PD207 ON DRAWING P010.

D-LC09-P100-REV06

C PLUMBING CALCULATIONS

PLUMBING FIXTURE	QTY.	SAN F.U. EACH	SAN F.U. TOTAL	C.W F.U. EACH	WTR. DMD. TOTAL
WATER CLOSET - WC-1	2	4.0	8.0	2.5	5.0
LAVATORY - SK12	2	1.0	2.0	1.0	2.0
MOP SINK - MS	1	3.0	3.0	3.0	3.0
FLOOR DRAIN - FD1	2	2.0	4.0	0.0	0.0
SINK - SK3.1	4	2.0	8.0	1.5	6.0
ELECTRIC WATER COOLER - EWC3	1	0.5	0.5	0.5	0.5
WATER DISPENSER IN BOH - WD	1	0.0	0.0	0.5	0.5
TOTALS			25.5		17.0
SERVICE CONNECTION SIZE		SAN:	4"	WATER:	1"

C-LC09-P100-REV06

E GENERAL PLUMBING NOTES

A. AT END OF CONSTRUCTION, ALL PLUMBING LINES (SANITARY AND SEWER) TO BE VIDEO RECORDED FOR ANY BLOCKAGE. UPON CONSTRUCTION COMPLETION, G.C. TO SEND VIDEO FOOTAGE TO ESSILOR LUXOTTICA P.M.

E-LC09-P100-REV05

B PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	DRAIN	HOT	COLD	VENT	DFU	SFU	GPM	PRESS. REQ.
SINK (SK3.1)	1 1/2"	1/2"	1/2"	1-1/2"	2.0	1.4	1.75	8
MOP SINK (MS)	1 1/2"	1/2"	1/2"	1-1/2"	2.0	3.0	5.0	8
WATER CLOSET (WC-1)	4"	-	1/2"	2"	4.0	2.5	3.0	20
LAVATORY (SK12)	1 1/4"	1/2"	1/2"	1-1/4"	1.0	1.0	0.5	8
FLOOR DRAIN (FD1)	3"	-	-	1-1/2"	2.0	-	-	-
FLOOR CLEAN OUT (FCO)	PIPE SIZE	-	-	-	-	-	-	-
WALL CLEAN OUT (WCO)	PIPE SIZE	-	-	-	-	-	-	-
ELECTRIC WATER HEATER (WH)	-	3/4"	3/4"	-	-	-	-	-
ELECTRIC WATER COOLER (EWC3)	1 1/4"	-	1/2"	1-1/4"	0.5	0.5	0.75	8
ELECTRIC WATER COOLER (WD)	-	-	1/2"	-	-	0.5	0.75	8

NOTE: (SK3.1) CONTRACTOR WILL BE REQUIRED TO FURNISH ALL LABOR, PIPING MATERIALS AND APPURTENANCES NECESSARY TO COMPLETE INSTALLATION OF SINKS, FAUCETS AND DRAINS.

BASED ON 2021 NEW JERSEY UCC PLUMBING SUBCODE

B-LC09-P100-REV06

F STANDARD P.D.I. WH 201 WATER HAMMER ARRESTOR SCHEDULE

P.D.I. UNITS	AA	A	B	C	D	E	F
FIXTURE UNITS	1-3	4-11	12-32	33-60	61-113	114-154	155-330

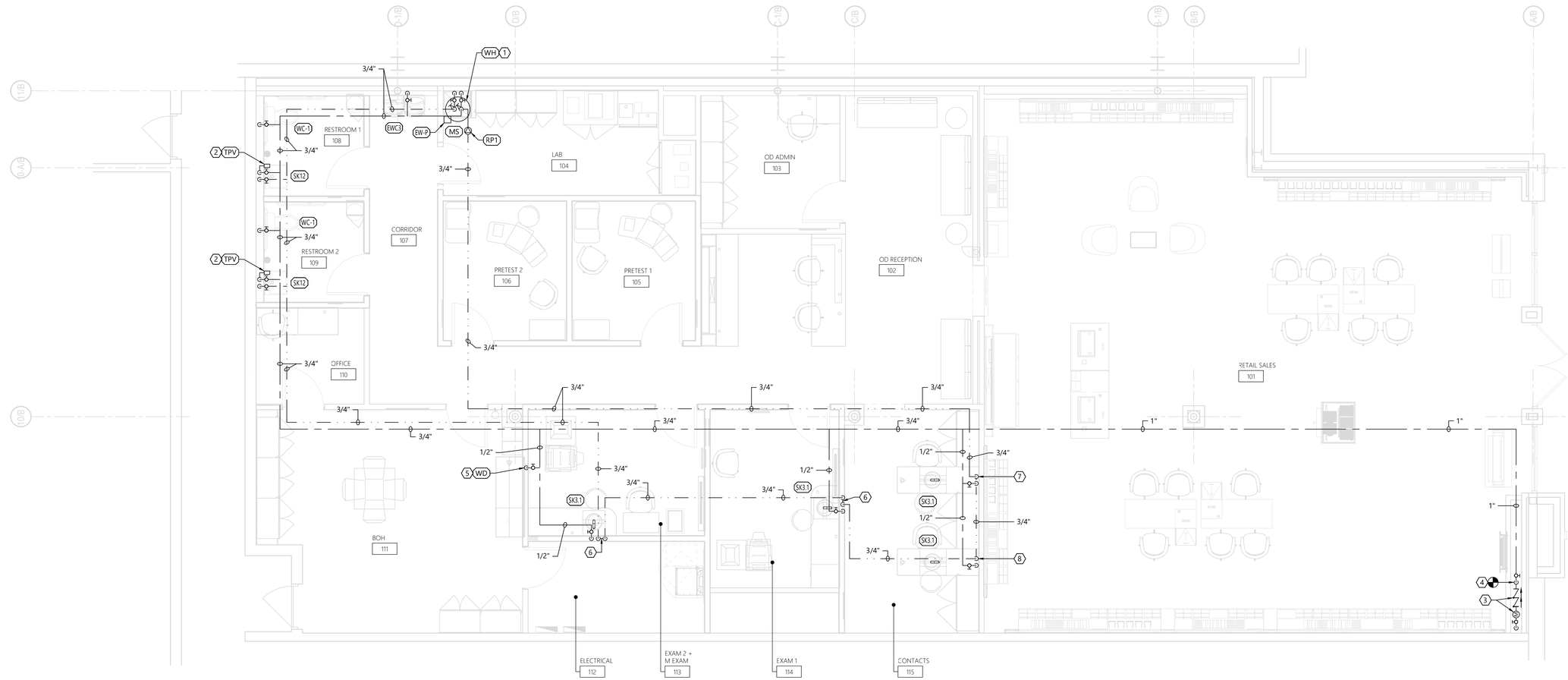
F-LC09-P100-REV05

A PLUMBING SYMBOLS

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- TEE OUTLET UP
- TEE OUTLET DOWN
- UNION
- BALL VALVE
- PIPE BREAK
- CHECK VALVE
- CAP
- WALL CLEANOUT
- FLOOR CLEANOUT
- P-TRAP
- FLOOR DRAIN
- TRAP PRIMER
- CONNECT TO EXISTING
- KEYED NOTE
- EQUIPMENT TAG
- WATER METER
- CIRCULATION PUMP
- SANITARY PIPING (SAN)
- VENT PIPING (V)
- COLD WATER PIPING (CW)
- HOT WATER PIPING (HW)
- NATURAL GAS PIPING (G)
- EXISTING SANITARY PIPING (EX SAN)
- EXISTING VENT PIPING (EX V)
- EXISTING COLD WATER PIPING (EX CW)
- EXISTING HOT WATER PIPING (EX HW)
- EXISTING NATURAL GAS PIPING (EX G)
- REMOVE EXISTING SANITARY PIPING (RX SAN)
- REMOVE EXISTING VENT PIPING (RX V)
- REMOVE EXISTING COLD WATER PIPING (RX CW)
- REMOVE EXISTING HOT WATER PIPING (RX HW)
- REMOVE EXISTING NATURAL GAS PIPING (RX G)

A-LC09-P200-REV06



1 PLUMBING - SUPPLY

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

DESIGN & CONSTRUCTION MANAGEMENT:

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SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By

Engineer of Record

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PROJECT NUMBER: 25-0381

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
PLUMBING PLAN

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.:
P200

A KEY NOTES - SANITARY & VENT

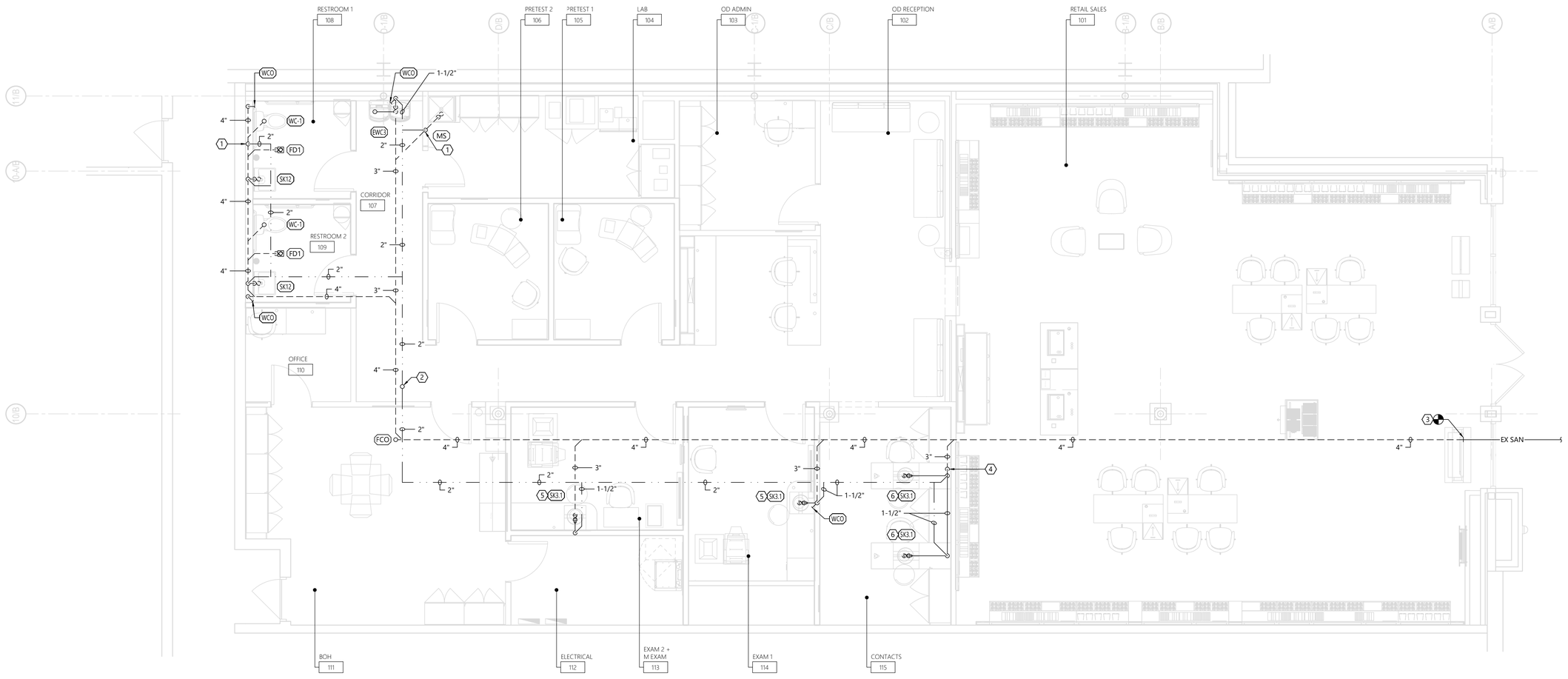
1. 2" VENT PIPING UP INSIDE WALL FROM BELOW FLOOR.
2. 2" VENT UP, 3" VENT THROUGH ROOF. SEE DETAIL PD210 ON DRAWING P010. COORDINATE WITH LANDLORD'S ROOFING CONTRACTOR, AS REQUIRED, TO MAINTAIN ROOF WARRANTY.
3. CONNECT NEW 4" SANITARY PIPING TO EXISTING 4" SANITARY STUB PROVIDED BY LANDLORD NEAR THIS AREA. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO START OF WORK.
4. 1-1/2" SANITARY PIPING DOWN TO BELOW FLOOR. TRANSITION TO 3" BELOW FLOOR.
5. SEE DETAIL PD211 ON DRAWING P010 FOR PIPING ARRANGEMENT.
6. SEE DETAIL PD214 ON DRAWING P010 FOR PIPING ARRANGEMENT.

A-LC09-P210-REV05

B GENERAL PLUMBING NOTES

A. AT END OF CONSTRUCTION, ALL PLUMBING LINES (SANITARY AND SEWER) TO BE VIDEO RECORDED FOR ANY BLOCKAGE. UPON CONSTRUCTION COMPLETION, G.C. TO SEND VIDEO FOOTAGE TO ESSILOR LUXOTTICA P.M.

B-LC09-P210-REV05



1 PLUMBING - SANITARY AND VENT

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

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Sheet Name:

PLUMBING PLAN

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: P210

D ELECTRICAL SPECIFICATIONS

DIVISION 16000 - ELECTRICAL

PART I - GENERAL

A. GENERAL CONDITIONS, CODES & STANDARDS
1. SEE ELECTRICAL PLANS / DETAILS / RESPONSIBILITY SCHEDULE FOR FURTHER INFORMATION.
2. ALL WORK SHOWN ON THE ELECTRICAL DOCUMENTS IS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
3. ALL WORK TO MEET APPLICABLE CODES AS LOCALLY ENFORCED. NO WORK ON THE DRAWINGS IS TO BE INSTALLED WHERE IT CONFLICTS WITH LOCAL CODE ENFORCEMENT. COORDINATE WITH THE LOCAL INSPECTOR PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE THE ELECTRICAL WORK AS SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.
6. TEMPORARY ELECTRICAL SERVICE, LIGHTING, AND RELATED WIRING SHALL BE PROVIDED TO OSHA REQUIREMENTS FOR THE USE OF ALL TRADES DURING CONSTRUCTION.
7. MATERIALS: ALL MATERIALS USED ON THIS PROJECT SHALL BE UL LISTED, OR LISTED BY AN EQUIVALENT ORGANIZATION AND SHALL BE APPROVED FOR THE USE THAT THE MATERIAL OR DEVICE IS TO BE INSTALLED. MATERIALS SHALL BE NEW AND OF GOOD QUALITY AND INSTALLATION WORKMANSHIP SHALL CONFORM TO THE HIGHEST STANDARD FOR THEIR TRADE.
8. SHOP DRAWINGS: PROVIDE ELECTRONIC PDF COPY TO THE ESSILOR LUXOTTICA PROJECT MANAGER FOR DISCONNECTS, PANELBOARDS, AND TRANSFORMERS. PROVIDE PRIOR TO ORDERING EQUIPMENT.

B. SCOPE OF WORK
1. ONLY MAJOR EQUIPMENT IS SHOWN ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL BID AND CONSTRUCT A COMPLETE AND OPERATIONAL SYSTEM. MISCELLANEOUS EQUIPMENT REQUIRED TO COMPLETE THE WORK IS IN THE ELECTRICAL CONTRACTOR'S SCOPE - ASSUME NO WORK OR EQUIPMENT IS PROVIDED BY OTHERS UNLESS STATED AS SUCH.

C. DURING BIDDING:
1.1. VERIFY THE EXISTING CONDITIONS AND COMPENSATE FOR ANY VARIATIONS IN THE SCOPE AS A RESULT.
1.2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND SHALL BE FAMILIAR WITH THE LIMITS OF DEMOLITION REQUIRED FOR ALL TRADES. COORDINATE DEMOLITION WITH REQUIREMENTS OF NEW CONSTRUCTION PRIOR TO INITIATING WORK.
1.3. WHERE THERE IS A CONFLICT THAT CANNOT BE RESOLVED BY THE GENERAL CONTRACTOR, ADVISE ENGINEER PROMPTLY FOR A RESOLUTION. DO NOT PROVIDE WORK WHEN THERE IS UNCERTAINTY ON WHAT WORK IS TO BE PERFORMED.
2. AS PART OF THE BIDDING PROCESS, REPORT TO THE TENANT ANY ERRORS OR UNCLEAR DIRECTIONS THAT YOU HAVE IDENTIFIED.

C. DOCUMENTS

1. SUBSTITUTIONS
1.1. THE MANUFACTURERS AND MODEL NUMBERS INDICATED IN THE CONTRACT DOCUMENTS ARE FOR THE PURPOSE OF DESCRIPTION AND TO ESTABLISH A BASE LEVEL OF QUALITY. THE GENERAL CONTRACTOR'S BID WILL CONTEMPLATE THE USE OF THE EQUIPMENT AND MATERIALS EQUIVALENT TO THOSE INDICATED.
2. MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURE PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET IN THESE SPECIFICATIONS.

D. CONSTRUCTION COORDINATION

1. DURING BIDDING YOU VISITED THE SITE. WORK WITH THE GENERAL CONTRACTOR TO COORDINATE ANY CONFLICTS WITH EXISTING CONDITIONS. THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE TENANT.
2. GENERAL CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINED OPERATIONAL AND SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL COSTS FOR REPAIR OF DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE GENERAL CONTRACTOR CAUSING THE DAMAGE.
3. ELECTRICAL CONTRACTOR TO COORDINATE ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH THE MECHANICAL CONTRACTOR OR LANDLORD (WHOMEVER IS PROVIDING THIS EQUIPMENT). VERIFY FINAL LOCATION, VOLTAGE, PHASE, LOAD, AND DISCONNECTING MEANS. COORDINATE THIS PRIOR TO THE START OF CONSTRUCTION AND ORDERING OF MATERIAL. PROVIDE PER COORDINATION EFFORTS.
4. ELECTRICAL CONTRACTOR TO COORDINATE ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH THE PLUMBING CONTRACTOR OR LANDLORD (WHOMEVER IS PROVIDING THIS EQUIPMENT). VERIFY FINAL LOCATION, VOLTAGE, PHASE, LOAD, AND DISCONNECTING MEANS. COORDINATE THIS PRIOR TO THE START OF CONSTRUCTION AND ORDERING OF MATERIAL. PROVIDE PER COORDINATION EFFORTS.

PART 2 - PRODUCTS

A. WIRING DEVICES
1. DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, NEMA 5-20R, RATED FOR 20 AMPS, 125 VOLTS, WITH PROVISIONS FOR BACK AND SIDE WIRING.
1.1. SPECIFICATION GRADE DUPLEX RECEPTACLE SHALL BE LUTRON #SCR5-20-TR-xx SERIES OR APPROVED EQUAL, HEAVY DUTY. COORDINATE COLOR WITH COLOR CHART ON SHEET E210.
1.3. GROUND FAULT CIRCUIT INTERRUPTER (GFI) DUPLEX RECEPTACLES SHALL BE LUTRON SCR-20-GFST-xx AND SHALL BE PROVIDED WHERE INDICATED. COORDINATE COLOR WITH COLOR CHART ON SHEET E210.
2. SWITCHES SHALL BE TOGGLE OPERATED, QUIET TYPE, RATED FOR 20 AMPS, 120/277 VOLTS, WITH PROVISIONS FOR BACK AND SIDE WIRING. THREE WAY AND FOUR WAY SWITCHES SHALL BE PROVIDED WHERE INDICATED. COORDINATE COLOR WITH COLOR CHART ON SHEET E210.
2.1. SINGLE POLE SWITCHES SHALL BE LUTRON CA-1PS SERIES, SC-1PS SERIES, OR APPROVED EQUAL, SILENT ACTUATING, 20-AMP, 120/277V. COORDINATE COLOR WITH COLOR CHART ON SHEET E210.
2.2. STANDARD THREE POLE SWITCHES SHALL BE LUTRON CA-3PS SERIES, SC-3PS SERIES, OR APPROVED EQUAL, SILENT ACTUATING, 20-AMP, 120/277V. COORDINATE COLOR WITH COLOR CHART ON SHEET E210.
3. DIMMERS SHALL BE LUTRON MA-PRO DIMMER SWITCH, OF A RATING, VOLTAGE AND WATTAGE SUITABLE FOR LOAD SERVED. COLORS OF DEVICES AND COVERPLATES SHALL BE COORDINATED WITH COLOR CHART ON SHEET E210.
4. WALL OCCUPANT SENSOR SHALL BE LUTRON MS-B102 WITH INTEGRAL PASSIVE INFRARED OCCUPANT SENSING, AVAILABLE IN 1-WAY OR 3-WAY CONFIGURATIONS, OR APPROVED EQUAL. 3-WAY CONFIGURATION REQUIRES LUTRON COMPANION SWITCHES FOR PROPER FUNCTION. COMPANION SWITCHES SHALL BE LUTRON MA-AS, OR MSC-AS DEPENDING ON COLOR REQUIREMENTS. COLOR TO BE COORDINATED WITH COLOR CHART ON SHEET E210. VERIFY LOAD SERVED IS COMPATIBLE PRIOR TO ORDERING.
5. WIRING DEVICES SHALL BE SPECIFICATION GRADE.
6. COVERPLATES FOR POWER, DATA & TELEPHONE SHALL BE LUTRON OR APPROVED EQUAL, PLASTIC. COORDINATE COLOR WITH COLOR CHART ON SHEET E210.
7. LIGHTING CONTRACTORS SHALL BE IN NEMA 1 ENCLOSURE, NORMALLY OPEN ELECTRICALLY HELD, 120V, COIL, 20A. REFER TO PLANS FOR NUMBER OF POLES.

B. LIGHTING AND RECEPTACLE LOAD CENTERS (PANELS)
1. BRANCH CIRCUIT LOAD CENTERS SHALL BE DEAD FRONT TYPE, WITH MAIN LUGS OR MAIN OVERCURRENT DEVICE AS INDICATED, BRANCH OVERCURRENT DEVICES AS NOTED AND AN EQUIPMENT GROUND BAR; ALL IN A FLUSH MOUNTED SHEET STEEL ENCLOSURE. MINIMUM SHORT CIRCUIT CAPACITY SHALL BE 10,000 AMPS SYMMETRICAL FOR 120/208V, AND 14,000 AMPS SYMMETRICAL FOR 277/480V APPLICATION UNLESS NOTED OTHERWISE. LOAD CENTERS MUST BE SELECTED TO FIT IN A STANDARD STUD WALL.
2. LOAD CENTERS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, ITE/SIEMENS AND WESTINGHOUSE/CUTLER HAMMER.

C. FIXTURES AND LAMPS
1. ALL FIXTURES AND LAMPS ARE FURNISHED BY TENANT, INSTALLED BY ELECTRICAL CONTRACTOR.

D. CONDUIT
1. PROVIDE PER LOCAL, STATE, AND NATIONAL CODES.

E. FIRE ALARM SYSTEM
1. ALL WORK ON FIRE ALARM SYSTEM TO BE BY THE LANDLORD/OWNER REQUIRED CONTRACTOR AT ELECTRICAL CONTRACT'S EXPENSE.

PART 3 - EXECUTION

C. GENERAL MISCELLANEOUS
1. ALL CONDUIT RUN IN FINISHED AREAS SHALL BE CONCEALED.
2. PROVIDE TYPEWRITTEN DIRECTORY CARDS WITH BRANCH CIRCUIT IDENTIFICATION FOR BRANCH CIRCUIT PANELBOARDS, PANELBOARDS, FEEDER DEVICES, DISTRIBUTION EQUIPMENT AND STARTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16.
3. INSTALL HANDLE GUARDS ON ALL BREAKERS FOR NIGHT LIGHTING, EMERGENCY AND SIMILAR CIRCUITS.
4. ALL FLUSH MOUNTED ;LOADCENTERS SHALL HAVE (3) 3/4" EMPTY CONDUITS INSTALLED TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
5. THE FINAL LOCATIONS OF ALL EQUIPMENT, OUTLETS, ETC. SHALL BE SUBJECT TO REASONABLE CHANGES IN LOCATION UP TO THE TIME OF ROUGHING-IN, AT NO ADDITIONAL COST TO THE TENANT.

B. GROUNDING
1. GROUNDING OF THE ELECTRICAL SYSTEM SHALL BE BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUIT CONDUCTORS IN ALL CONDUITS AND SUPPLEMENTAL AS REQUIRED TO MEET THE NEC, LOCAL AND STATE CODES.
2. PROVIDE REDUNDANT BRANCH CIRCUIT GROUNDING SYSTEM IN ALL PATIENT CARE AREAS: EXAM, CONTACT LENS, PRETEST, AND ALCOVE ROOMS. PROVIDE PER ARTICLE 517.

C. TESTS
1. TEST FOR GROUNDS, SHORT CIRCUITS, AND PROPER FUNCTION OF ALL EQUIPMENT AFTER INSTALLATION IS COMPLETE. FAULTS IN THE INSTALLATION SHALL BE CORRECTED AT NO COST TO THE TENANT.

D. DEMOLITION
1. DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT, IF APPLICABLE, SHALL BE PART OF THE ELECTRICAL WORK AS INDICATED ON THE DRAWINGS.

D-LC09-E001-REV09

E GENERAL NOTES

A. IT SHALL BE THE E.C.'S RESPONSIBILITY TO UNLOAD INVENTORY AND STORE LIGHTING PACKAGE. THE E.C. SHALL ALSO SHIP ANY EXCESS MATERIALS BACK TO THE ELECTRICAL PACKAGE DISTRIBUTOR AT THE G.C.s EXPENSE.

B. EXIT LIGHTS AT THE STOREFRONT SHALL BE PENDANT MOUNTED AND CENTERED OVER OPENINGS. EXIT/EMERGENCY LIGHTS AT DOOR TO NON-SALES AREAS SHALL BE CEILING MOUNTED AND CENTERED ABOVE DOOR. IF PLAN LOCATIONS ARE NOT ACCEPTABLE, IMMEDIATELY CONTACT ESSILOR LUXOTTICA PROJECT MANAGER FOR DIRECTION.

C. LIGHTING CIRCUITS UP TO 100'-0" IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 101'-0" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 151'-0" TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. LIGHTING CIRCUITS ABOVE 251'-0" IN LENGTH SHALL UTILIZE #6 CONDUCTORS MINIMUM.

D. E.C.'S BID SHALL INCLUDE THE INSTALLATION OF ALL LUMINAIRES AND ASSOCIATED LAMPS FURNISHED BY ESSILOR LUXOTTICA. E.C. IS RESPONSIBLE TO ENSURE THE ADJUSTABILITY OF ALL DIRECTIONAL FIXTURES AFTER INSTALLATION AND SHALL AIM THE FIXTURES PER PLAN. IF THE CEILING SYSTEMS ARE FIRE RATED, E.C. SHALL CLOSELY COORDINATE FIXTURE REQUIREMENTS WITH ESSILOR LUXOTTICA.

E. E.C. SHALL VERIFY THE VOLTAGE AND COMPATIBILITY OF ALL EQUIPMENT, FIXTURES AND MILLWORK PRIOR TO CONNECTION. E.C. SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A FULLY COMPLETE AND OPERABLE SYSTEM.

F. ALL MOUNTING HEIGHTS FROM THE CENTERLINE OF THE BOX TO THE FINISHED FLOOR ARE AS FOLLOWS, UNLESS NOTED OTHERWISE ON PLAN: SWITCHES-44", TOP OF PANELBOARDS-6'-6", TIMECLOCKS-5'-0". FOR ALL RECEPTACLES AND DATA OUTLETS SEE SHEET E220.

G. FLEXIBLE CONDUIT SHALL BE USED FOR ALL FINAL CONNECTIONS TO MILLWORK, INTERIOR LIGHTING FIXTURES, AND EQUIPMENT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 12'-0".

H. IF INSTALLATION VARIES FROM THE CONTRACT DRAWINGS, THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING "AS BUILT" DRAWINGS FROM THE SUBCONTRACTORS AND SUBMITTING SAME TO ESSILOR LUXOTTICA PROJECT MANAGER.

I. IT IS THE E.C.'S RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM (WITH-IN 10%).

J. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND ORDINANCES.

K. ALL OUTLETS ARE TO BE LABELED WITH A WHITE LABEL AND BLACK LETTERING ON THE FACEPLATE WITH PANEL AND CIRCUIT NUMBER.

L. SEE DATA RACK, PATCH PANEL SCHEDULE, AND ASSOCIATED DETAILS ON SHEET E010 FOR ADDITIONAL INFORMATION.

M. PROVIDE POWER, TELEPHONE AND DATA CONDUIT WITHIN FLOOR, BETWEEN FIXTURE AND NEAREST WALL AS INDICATED ON PLANS. METHOD OF SAW CUTTING SHALL BE PER BUILDING REQUIREMENTS. ALL SAW CUTTING AND TRENCHING REQUIREMENTS SHALL BE VERIFIED WITH LANDLORD. CONTRACTOR SHALL SIZE CONDUIT PER NEC. PROVIDE FOR X-RAY OF FLOOR PRIOR TO ANY SLAB PENETRATIONS. SEE ARCHITECTURAL SHEETS FOR CONCRETE POUR-BACK DETAIL.

N. EC TO PROVIDE AND INSTALL ALL DISCONNECTS FOR MECHANICAL AND PLUMBING EQUIPMENT THAT ARE NOT SUPPLIED BY THOSE CONTRACTORS OR THE EQUIPMENT SUPPLIER.

O. PROVIDE FIRE STOPPING FOR ALL PENETRATIONS OF FIRE WALLS. PROVIDE THROUGH WALL FIRE STOPPING FOR ALL LOCATIONS WHERE JUNCTION BOXES IN A DEMISING WALL, OR OTHER FIRE WALL. SEE FIRE STOP SCHEDULE ON SHEET E004 FOR REQUIREMENTS.

P. ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED IN THE CONTRACT DOCUMENTS BY THE GC SHALL BE BROUGHT TO THE ATTENTION OF THE ESSILOR LUXOTTICA PROJECT MANAGER FOR DIRECTION BEFORE PROCEEDING WITH THE RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS WILL BE THE RESPONSIBILITY OF THE GC.

E-LC09-E001-REV04

C ELECTRICAL SYMBOLS LIST

- DUPLEX RECEPTACLE (B)(E)
- DOUBLE DUPLEX RECEPTACLE (B)(E)
- RECESSED FLOOR BOX OR POKE THRU W/ DEVICES
- POWER/DATA CONDUIT STUB-UP
- SINGLE GANG J-BOX (B)(E)
- SPECIAL OUTLET RECEPTACLE (C)
- SURFACE MOUNTED PANELBOARD (C)
- SAFETY SWITCH (C)
- CL CURRENT LIMITING PANEL (C)
- TC TIME CLOCK
- DOOR BELL SYSTEM - EXTERIOR PUSHBUTTON
- DOOR BELL SYSTEM - STROBE AND BELL
- INFLOOR/UNDERFLOOR CONDUIT/WIRE ROUTING
- SECURITY CAMERA
- DATA / PHONE OUTLET (B)
- WIFI DEVICE
- TRAFFIC COUNTER
- MUSIC SYSTEM SPEAKER
- LIGHT SWITCH (A)(B)(E)
- UNSWITCHED CIRCUITING
- LIGHT SWITCHING/POWER CIRCUIT
- RECESSED LINEAR LIGHT FIXTURE (D)
- 2X2 RECESSED LIGHT FIXTURE (D)
- WALL SCONCE (D)
- EXIT SIGN - UNIVERSAL MOUNT (D)
- EMERGENCY EGRESS LIGHT FIXTURE (D)
- RECESSED DOWNLIGHT (D)
- TRACK LIGHTING (D)
- OCCUPANCY SENSOR (A)
- PLAN NOTE SYMBOL
- REVISION CLOUD IDENTIFICATION MARK
- LINE CONTINUATION BREAK

FIRE ALARM SYMBOLS:

- F FIRE ALARM MANUAL PULL STATION
- FH FIRE ALARM HORN / STROBE (CEILING MOUNTED)
- FV FIRE ALARM STROBE (WALL MOUNTED)
- FH FIRE ALARM HORN / STROBE (PENDANT MOUNTED)
- SD FIRE ALARM SMOKE DETECTOR (CEILING MOUNTED)
- SD FIRE ALARM DUCT SMOKE DETECTOR

ELECTRICAL SYMBOL NOTES:

- (A) SEE OCCUPANCY SENSOR DETAIL ED059 ON SHEET E011
- (B) SEE ELECTRICAL DIMENSIONING PLAN FOR DEVICE HEIGHT - SEE SHEET E220
- (C) SEE PANEL AND EQUIPMENT SCHEDULES ON SHEET E020
- (D) SEE LIGHTING PLAN AND LIGHT FIXTURE SCHEDULE ON SHEET E200

(E) RECEPTACLE / DEVICE / SWITCH SUBSCRIPTS:

3	3-WAY SWITCHING
4	4-WAY SWITCHING
OS	OCCUPANCY SENSOR AT SWITCH
D	DIMMER
ETR	EXISTING TO REMAIN
K	KEYED
S	SURFACE MOUNT
GFI	GROUND FAULT INTERRUPTING
WP	WEATHER RESISTANT
CL	MOUNTED IN CEILING
EM	EMERGENCY LIGHTING FIXTURE
USB	RECEPTACLE TYPE A USB INTEGRAL
XX"	HEIGHT OF DEVICE

C-LC09-E001-REV10

A RESPONSIBILITY SCHEDULE (ELECTRICAL)

T= TENANT
GC= GENERAL CONTRACTOR
LL= LANDLORD
MW= MILLWORKER
N/A= NOT APPLICABLE

DIVISION 16000 - ELECTRICAL	SUPL BY	RCV BY	INSTL BY	EXIST'G	PATCH & REPAIR	RELOC'TE	REMARKS
CONNECTION AND WIRING @ MILLWORK THROUGHOUT	GC	GC	GC				SEE POWER SYSTEMS SHEET E210 FOR SCOPE OF WORK.
ELECTRICAL SERVICE, FEEDERS, CONDUIT, METERS			●				SEE ONE-LINE DIAGRAM ON SHEET E020
ELECTRICAL PANELS	GC	GC	GC	●			GC TO REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET E020. SEE SHEET E210 FOR LOCATIONS AND QUANTITIES.
ELECTRICAL WIRING, CIRCUITING, RECEPTACLES, SWITCHES	GC	GC	GC				SEE SHEET E020 FOR PANEL SCHEDULES AND CIRCUITS. SEE SHEETS E200 & E210 FOR DEVICE QUANTITIES AND LOCATIONS.
RECEPTACLES	GC	GC	GC				SEE SHEET E210 FOR DEVICE QUANTITIES AND LOCATIONS.
EMERGENCY LIGHTING	T	GC	GC				SEE SHEET E200 FOR DEVICE QUANTITIES AND LOCATIONS.
EXIT SIGNS	T	GC	GC				SEE SHEET E200 FOR DEVICE QUANTITIES AND LOCATIONS.
NEW LIGHT FIXTURES & LAMPS (UNO)	T	GC	GC				SEE SHEET E200 FOR DEVICE QUANTITIES AND LOCATIONS.
OCCUPANCY SENSORS, POWER PACKS, SWITCHES, HDMI PORTS	GC	GC	GC				SEE SHEET E200 FOR DEVICE QUANTITIES AND LOCATIONS.
WALL SCONCE LAMPS	GC	GC	GC				SEE SHEET E200 FOR DEVICE QUANTITIES AND LOCATIONS.
TIME CLOCK, CURRENT LIMITING PANEL	EC	EC	EC				SEE ONE-LINE DIAGRAM. SIGNS, PERIMETER SHELVING, AND DISPLAY CABINETS SHALL ALL BE CONTROLLED BY TIME CLOCK.
CONTACTORS	GC	GC	GC				SEE DETAIL ED033 ON SHEET E011.
CONDUITS - DATA, COMMUNICATION, ALARMS, PHONES	GC	GC	GC				SEE SHEETS E002 AND E210 FOR LOCATIONS AND REQUIREMENTS.
DOOR BELL SYSTEM	GC	GC	GC				SEE DETAIL ED006 ON SHEET E010. SEE SHEET E210 FOR DEVICE QUANTITIES AND LOCATIONS.
WIRELESS EQUIPMENT	T	T	T				SEE SHEETS E002 AND E210 FOR LOCATIONS AND REQUIREMENTS.
SECURITY - HARDWARE	T	GC	T				SEE SHEETS E002 AND E210 FOR LOCATIONS AND REQUIREMENTS.
SECURITY - WIRING	GC	GC	GC				WIRING TO BE PLENUM RATED
POS AND DATA WIRING (TEMPORARY)	GC	GC	GC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS.
POS AND DATA WIRING (PERMANENT)	GC	GC	GC				WIRING TO BE PLENUM RATED
WIRING TO WIRELESS ACCESS POINTS	GC	GC	GC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS.
BACKBOARD TERMINATION - DATA	GC	GC	GC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS.
BACKBOARD TERMINATION - PHONE	T	T	T				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS.
PRODUCT SECURITY SYSTEM	GC	GC	GC				GC TO COORDINATE W VENDOR
LOW VOLTAGE EQUIPMENT & WIRING	GC	GC	GC				SEE SPECIALIZED LOW VOLTAGE SCHEDULE ON ELECTRICAL SHEETS.
FIRE ALARM SYSTEM	GC	GC	GC				TIE IN TO EXISTING LANDLORD SYSTEM. PROVIDE NEW DEVICES AND/OR MODIFY AS REQUIRED. UTILIZE LANDLORD REQUIRED FIRE ALARM VENDOR.
FIRE ALARM SHOP DRAWINGS AND SUBMITTALS	T						FIRE ALARM CONTRACTOR TO PROVIDE DOCUMENTS FOR AND IS RESPONSIBLE FOR BUILDING DEPARTMENT SUBMITTALS, INCLUDING ASSOCIATED FEES
MEP RESP SCHEDULE-REV10							

B RESPONSIBILITY SCHEDULE (LOW VOLTAGE)

T= TENANT
GC= GENERAL CONTRACTOR
LL= LANDLORD
EC= ELECTRICAL CONTRACTOR
N/A= NOT APPLICABLE
U = UTILITY VIA VENDOR

DIVISION 16000 - LOW VOLTAGE	SUPL BY	RCV BY	INSTL BY	EXIST'G	PATCH & REPAIR	RELOC'TE	REMARKS
DATA/TECH RACK	EC	EC	EC				
DATA/TECH RACK - DATA WIRING	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
DATA/TECH RACK - PATCH PANELS	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS.
DATA/TECH RACK - DATA JACKS	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS.
DATA - LABELING BOTH ENDS OF CABLE	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS.
TRAFFIC COUNTER	T	EC	T				
TRAFFIC COUNTER - DATA WIRING	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
SURVEILLANCE CAMERA	T	EC	T				
SURVEILLANCE CAMERA - DATA WIRING	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
SOUND SYSTEM	T	T	EC				
SOUND SYSTEM - RECEPTACLES (UNSWITCHED)	EC	EC	EC				SEE SHEET E210 FOR LOCATIONS AND REQUIREMENTS.
SOUND SYSTEM - WIRELESS AUDIO TRANSMITTER	T	T	EC				SEE SHEET E210 FOR LOCATIONS AND REQUIREMENTS.
SOUND SYSTEM - ETHERNET CONNECTION	T	T	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
SOUND SYSTEM - SPEAKER	T	T	EC				SEE SHEET E200 FOR LOCATIONS AND REQUIREMENTS.
TELEPHONE FIRE RATED PLYWOOD BACKBOARD (TELE BCKBRD)	EC	EC	EC				
TELE BCKBRD - CONDUIT FROM LL ROOM TO TENANT SPACE						●	SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
TELE BCKBRD - WIRING FROM LL ROOM TO TENANT SPACE	EC	EC	EC			●	SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
TELE BCKBRD - PLYWOOD BACKBOARD	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
TELE BCKBRD - UNSWITCHED RECEPTACLES	EC	EC	EC				SEE SHEETS E010 AND E210 FOR LOCATIONS AND REQUIREMENTS. WIRING TO BE PLENUM RATED
BACKWRAP - DLINK SWITCH (WHERE USED)	T	T	T				
EQUIPMENT SPECIFICATIONS							
LENSCRAFTERS INLINE RACK KITS							
RETAIL EQUIPMENT RACK KIT	EC	EC	EC				Order from Anixter. See website https://www.anixter.com/en_us/about-us/contact-us.html for sales branch locator and contact information. 5-7 Day Lead Time. Reference Luxottica Part# LUX-OPTICAL-1V2. Includes Racks, Components, Termination Panels, Shelves, and Cable Management required for retail sales floor installations.
RETAIL FIELD DATA CABLING KIT	EC	EC	EC				Order from Anixter. See website https://www.anixter.com/en_us/about-us/contact-us.html for sales branch locator and contact information. 5-7 Day Lead Time. Reference Luxottica Part# LUX-OPTICAL-1V2. Includes Racks, Components, Termination Panels, Shelves, and Cable Management required for retail sales floor installations.
DOCTOR/DDC EQUIPMENT RACK KIT	EC	EC	EC				Order from Anixter. See website https://www.anixter.com/en_us/about-us/contact-us.html for sales branch locator and contact information. 5-7 Day Lead Time. Reference Luxottica Part# LUX-OPTICAL-1V2. Includes Racks, Components, Termination Panels, Shelves, and Cable Management required for retail sales floor installations.
DOCTOR/DDC DATA CABLING KIT	EC	EC	EC				Order from Anixter. See website https://www.anixter.com/en_us/about-us/contact-us.html for sales branch locator and contact information. 5-7 Day Lead Time. Reference Luxottica Part# LUX-OPTICAL-1V2. Includes Racks, Components, Termination Panels, Shelves, and Cable Management required for retail sales floor installations.
CAT6 PLENUM CABLE - 1000 FT BOX	EC	EC	EC				Order from Anixter. Reference Manufacturer Part # CMP-00423GEN-6U-06
CAT6 TERMINATION JACK - WHITE	EC	EC	EC				Order from Anixter. Reference Manufacture Part # CJ688TGWH
CAT6 TERMINATION JACK - BLUE	EC	EC	EC				Order from Anixter. Reference Manufacture Part # CJ688TGBU
4 PORT WHITE FACEPLATE - MINICOM	EC	EC	EC				Order from Anixter. Reference Manufacture Part # CFP4WH
2 PORT WHITE FACEPLATE - MINICOM	EC	EC	EC				Order from Anixter. Reference Manufacture Part # CFP2WH
WIRING FROM LL TELEPHONE ROOM TO SPACE: 25 PAIR, CATEGORY 5e, PLENUM GenSPEED® 5000 Category 5e 25-Pair Backbone Cable, Grey	EC	EC	EC				SEE PLANS FOR APPROXIMATE DISTANCE FROM LL ROOM TO TENANT SPACE.
TESTING AND REPORTS	EC	EC	EC				
Testing of ALL Data Cabling Terminations	EC	EC	EC				Testing to ANSI/TIA-568-C.2 CAT 6 Field Test Specifications
PDF Report of Compliance with Testing	EC	EC	EC				Provide reporting of each cable and termination compliance with ANSI/TIA-568-C.2 Testing
Horizontal Cable Labeling	EC	EC	EC				Label each horizontal cable according to ANSI/TIA-606-B Standards
Panel Schedule Labeling and Identification	EC	EC	EC				Label each termination panel in accordance with provided schedule to correspond to field terminations
Field Location Labeling and Identification	EC	EC	EC				Label each Field Outlet in accordance with provided schedule to correspond to panel terminations
Field Location Cable Mapping and Identification	EC	EC	EC				Provide updated drawing indicating field locations of each horizontal cable
TELEPHONE BACKBOARD DIGITAL EQUIPMENT							
MIRAKI ROUTER	T	T	T				
66 BLOCK OR BISQUIT JACK	U	U	U				
CONNECTION BETWEEN THE 66 BLOCK AND PATCH PANEL	T	T	T				
ROUTERS OR SWTCHES, UNLESS NOTED SPECIFICALLY OTHERWISE	T	T	T				
PATCH CABLES BETWEEN PATCH PANELS AND ELECTRONICS	T	T	T				
ANY PATCH CABLES	T	T	T				
VENDOR CONTACTS:							

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MEP RESP SCHEDULE-REV10

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A Brand of EssilorLuxottica

Revisions:

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Engineer of Record

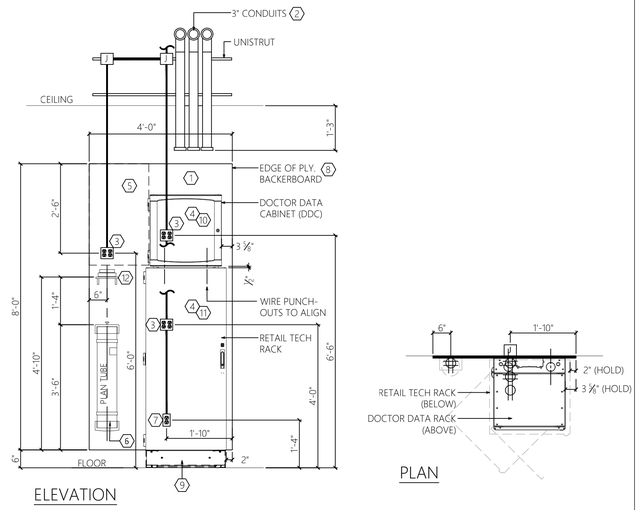
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CONSULTING ENGINEERS
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POTTSVILL

A DETAIL NOTES

1. ROUTE POWER IN SURFACE MOUNTED CONDUITS ON PHONE BOARD. ALL POWER WIRING TO BE IN 1 INCH CONDUIT, OR LARGER AS CIRCUITING ARRANGEMENT DEMANDS. NOTE THE CONDUITS, BOXES AND OUTLETS ARE TO BE INSTALLED AFTER THE CABINET BACKPAN IS INSTALLED TO ALLOW FOR ACCURATE ALIGNMENT
2. MINIMUM THREE 2-1/2" EMT CONDUITS FROM 15 INCHES BELOW CEILING, ABOVE TOP OF BOARD AS INDICATED FOR IT/TELECOM EQUIPMENT. EXTEND CONDUITS TO 24 INCHES ABOVE CEILING FOR CABLE PATHWAY. PROVIDE 90 DEGREE RADIUS SWEEPS ABOVE CEILING, WITH PLENUM RATED BUSHINGS ON BOTH ENDS OF CONDUITS TO PREVENT CABLE DAMAGE.
3. SURFACE MOUNT QUAD OUTLET WITH DEDICATED 20A CIRCUIT AND DEVICES. PROVIDE 1 INCH CONDUIT FROM ABOVE CEILING TO DEVICE LOCATIONS, TO BE USED FOR VOICE/DATA/SECURITY EQUIPMENT. NOTE THE CONDUITS, BOXES AND OUTLETS ARE TO BE INSTALLED AFTER THE CABINET BACKPAN IS INSTALLED TO ALLOW FOR ACCURATE ALIGNMENT
4. RACKS PROVIDED BY ELECTRICAL CONTRACTOR TO BE AS SPECIFIED IN THE RESPONSIBILITY SCHEDULE. REFER TO MANUFACTURER INSTRUCTIONS FOR PROPER MOUNTING OF CABINETS. USE CABINET WHEELS AND BACK SPACER PAN (PROVIDED WITH CABINET) FOR SUPPORT ON THE FLOOR. USE 2 INCH X 1/4 INCH LAG BOLTS IN PROPER KEYHOLES. MOUNT 60HX24D TALL WALL-MOUNT, FLOOR SUPPORTED CABINET FIRST, 2" FROM EDGE OF BOARD ON OPENING SIDE OF CABINET. MOUNT 24HX24D CABINET ABOVE ALIGNING 1" KNOCKOUT HOLDS FROM TOP TO BOTTOM CABINET FOR POWER PASS THROUGH. REMOVE 3" KNOCKOUTS FOR CABLE PASS THROUGH BEFORE MOUNTING CABINETS. IF WALL BEHIND BOARD IS SOLID CONCRETE OR BRICK, USE SPECIALIZED HARDWARE TO MOUNT CABINET SECURELY THROUGH BOARD TO SURFACE BEHIND.
5. DEMARC AREA FOR TELCO AND BROADBAND PROVIDERS. RESERVED 20 INCHES BY 30 INCHES.
6. 36 INCH LONG X 6 INCH DIAMETER PVC TUBE FOR AS BUILT PLANS (BY GC). UPON COMPLETION OF PROJECT, GENERAL CONTRACTOR MUST RUN A NEW PRINT SET OF THE AS-BUILT STORE DRAWINGS (ALL APPLICABLE TRADES) AND PLACE PRINTS INTO THE PLAN TUBE HOLDER. LABEL (W/ CLEAR TAPE) STATING: "THIS TUBE CONTAINS STORE DRAWINGS AND IS NOT TO BE REMOVED WITHOUT THE CONSENT OF THE STORE MANAGER". TENANT G.C. TO SUPPLY AND INSTALL DRAWING TUBE ASSEMBLY WHERE INDICATED ON PLANS OR AS DIRECTED BY THE PROJECT MANAGER. SEE DETAIL 13 ON SHEET A411 FOR MORE INFORMATION.
7. PROVIDE 20A DUPLEX RECEPTACLE FOR AUDIO EQUIPMENT. SEPARATE CONTROL CIRCUIT NOT REQUIRED AS MOOD EQUIPMENT COMES STANDARD WITH AN ALARM SHUT MODULE. IT DOES HOWEVER NEED A LINE FROM THE FIRE CONTROL PANEL TO SHUT OFF POWER.
8. MOUNT 4FT X 8FT HIGH, 3/4" THICK VOID-FREE, FIRE RATED PLYWOOD AT 6 INCHES ABOVE FINISHED FLOOR. PAINT TO MATCH WALL BUT DO NOT PAINT OVER FIRE RATED LABELING ON THE PLYWOOD FOR INSPECTOR TO VERIFY PLYWOOD IS RATED. IF FIRE RATED PLYWOOD IS NOT AVAILABLE, PAINT WITH 2 COATS OF WHITE, FIRE RATED PAINT AND RETAIN PAINT INFORMATION FOR FIRE INSPECTION.
9. BOTTOM OF CABINET SHOULD SIT 6" A.F.F. ON TOP OF WHEEL AND SPACER BACK PAN ASSEMBLY PROVIDED WITH THE CABINET. SEE INSTRUCTIONS PROVIDED WITH EQUIPMENT FOR PROPER ASSEMBLY OF FLOOR MOUNTED DATA CABINET.
10. DDC TECH CABINET SHALL HOUSE PATCH PANELS "D" AND "E".
11. RETAIL TECH CABINET SHALL HOUSE PATCH PANELS "A", "B", AND "C".
12. SPOTLINE TRANSMITTER ON TOP OF MOOD MEDIA PLAYER ON TOP OF SHELF PROVIDED BY MOOD MEDIA, INSTALLED BY EC. EC TO COORDINATE / PROVIDE AND INSTALL WIRING WITH FIRE ALARM VENDOR FOR AUTOMATIC SHUTOFF DURING ALARM.

A-LC09-E010-REV10

B NETWORK DIAGRAM



ED002 — SINGLE DOOR STATE (LEFT HANDED SWING)

ED002-LC09-E010-REV10

CLARIFYE CABLING & NETWORK QA CHECKLIST

TO BE COMPLETED BY PROJECT MANAGER ON MONDAY OF THE WEEK OF THE CLARIFYE INSTALLATION

IF ANY OF THE TASKS OR LABELS ARE NOT COMPLETED CORRECTLY, ESCALATE TO THE ON-SITE FLEET RENEWAL MANAGER IMMEDIATELY

TASK	COMPLETED (Y/N)
DOCTOR DATA CABINET IN THE TELECOM BACKBOARD OR DESIGNATED TELECOM AREA	
CONFIRM THE MODEM IS EXTENDED INTO THE DDX (IF THE INTERNET SEVICE DOES NOT HAVE A MODEM AND IT JUST A JACK, CONFIRM THE JACK IS PATCHED OVER TO THE DDC)	
CONFIRM THE MODEM IS LABELED AS THE "CLARIFYE MODEM"	
CONFIRM THE DDC HAS A 48-PORT PATCH PANEL INSTALLED	
CONFIRM THERE IS A SWITCH IN THE DDC LABELED AS "DOCTOR SWITCH"	
EXAM ROOMS	
CONFIRM THE RECESSED ENTERTAINMENT BOX IS INSTALLED PER THE DIMENSIONS SHOWN IN THE C600 ESSILOR CHART DETAILS.	
CONFIRM THE CABLE RUNS FOR THE WIRELESS ACCESS POINTS ARE TO THE CORRECT LOCATIONS AND LABELED ON THE CEILING.	

COMPLETED BY: _____

DATE COMPLETED: _____

EQUIPMENT INSIDE THE DOCTOR DATA CABINET	
CONFIRM CISCO MERAKI ROUTER IS PROPERLY MOUNTED INSIDE THE DOCTOR DDC CABINET	
CONFIRM THE CISCO MERAKI ROUTER IS LABELED AS THE "CLARIFYE ROUTER"	
CONFIRM THAT THE ETHERNET TERMINATIONS FROM THE ROOMS ARE CORRECTLY PUNCHED DOWN AND LABELED TO THE PATCH PANEL IN THE DDC	
CONFIRM THERE IS AN AVAILABLE POWER OUTLET WITHIN 3' OF THE DDC CABINET	
CONFIRM CISCO MERAKI ROUTER IS ONLINE WITH A SOLID WHITE STATUS LIGHT	

CABLE RUN LABEL & TESTING CONFIRMATIONS

CABLE FROM	CABLE TO	# OF RUNS/FACE-PLATE LOCATION	ROOM FACE PLATE LABELS	DDC PATCH PANEL LABELS	CONFIRM ALL DATA JACKS ARE LABELED CORRECTLY ON BOTH ENDS (Y/N)	CONFIRM ALL CABLE RUNS TESTED SUCCESSFULLY (Y/N)
PRETEST 1	DDC PATCH PANEL	4	D01,D02,D03,D04	D01,D02,D03,D04		
PRETEST 1	DDC PATCH PANEL	2	D05,D06	D05,D06		
PRETEST 2	DDC PATCH PANEL	4	D07,D08,D09,D10	D07,D08,D09,D10		
PRETEST 2	DDC PATCH PANEL	2	D11,D12	D11,D12		
EXAM 1 DESK	DDC PATCH PANEL	4	D17,D18,D19,D20	D17,D18,D19,D20		
EXAM 1 CHAIR	DDC PATCH PANEL	2	D21,D22	D21,D22		
EXAM 2 DESK	DDC PATCH PANEL	4	D24,D25,D26,D27	D24,D25,D26,D27		
EXAM 2 CHAIR	DDC PATCH PANEL	2	D28,D29	D28,D29		
EXAM 2 DESK	DDC PATCH PANEL	2	D30,D31	D30,D31		

▽ PATCH PANEL "A" - VOICE - 24 PORT (LOCATED AT RETAIL TECH RACK)

POS	LABEL	DESCRIPTION	POS	LABEL	DESCRIPTION	POS	LABEL	DESCRIPTION	POS	LABEL	DESCRIPTION
1	A01	WORK COUNTER MANAGER - A1	7	A07	SALES FLOOR - SELECT TABLE	13	A13	OD RECEPTION - A1	19	A19	EXAM ROOM #2 - WALL
2	A02	WORK COUNTER MANAGER - A2	8	A08	SALES FLOOR - SELECT TABLE	14	A14	OD RECEPTION - A2	20	A20	-
3	A03	WORK COUNTER MANAGER - B1	9	A09	SALES FLOOR - SELECT TABLE	15	A15	OD RECEPTION - B1	21	A21	-
4	A04	WORK COUNTER MANAGER - B2	10	A10	SALES FLOOR - SELECT TABLE	16	A16	OD RECEPTION - B2	22	A22	-
5	A05	-	11	A11	-	17	A17	EXAM ROOM #1 - WALL	23	A23	-
6	A06		12	A12		18	A18	-	24	A24	-

ROUTE CATEGORY 6 CABLING FROM EACH PORT ON THE PATCH PANEL TO THE CORRESPONDING JACK IDENTIFIED ON THE PLAN. ROUTE THE WIRING IN A CODE COMPLIANT FASHION, IN CONDUIT OR IN FREE AIR AS PER THE JURISDICTION REQUIREMENTS. WHERE WIRING IS ROUTED IN FREE AIR, PROVIDE J-HOOKS AT 6FT INTERVALS MAXIMUM AND NEATLY INSTALL.

▽ PATCH PANEL "B" - DATA - 48 PORT (LOCATED AT RETAIL TECH RACK)

POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION
1	B01	SALES FLOOR - WIFI	13	B13	CASH DESK B1	25	B25	-	37	B37	-
2	B02	-	14	B14	CASH DESK B2	26	B26	-	38	B38	-
3	B03	TRAFFIC COUNTER	15	B15	CASH DESK B3	27	B27	-	39	B39	-
4	B04	-	16	B16	CASH DESK B4	28	B28	-	40	B40	-
5	B05	WORK COUNTER MANAGER	17	B17	CASH PHONE CABINET	29	B29	-	41	B41	-
6	B06	WORK COUNTER MANAGER	18	B18	CASH PHONE CABINET	30	B30	-	42	B42	-
7	B07	WORK COUNTER MANAGER	19	B19		31	B31	-	43	B43	LAB - DESK
8	B08	WORK COUNTER MANAGER	20	B20	-	32	B32	-	44	B44	LAB - DESK
9	B09	CASH DESK A1	21	B21	-	33	B33	-	45	B45	LAB - DESK
10	B10	CASH DESK A2	22	B22	-	34	B34	-	46	B46	LAB - DESK
11	B11	CASH DESK A3	23	B23	-	35	B35	-	47	B47	-
12	B12	CASH DESK A4	24	B24	-	36	B36	-	48	B48	-

ROUTE CATEGORY 6 CABLING FROM EACH PORT ON THE PATCH PANEL TO THE CORRESPONDING JACK IDENTIFIED ON THE PLAN. ROUTE THE WIRING IN A CODE COMPLIANT FASHION, IN CONDUIT OR IN FREE AIR AS PER THE JURISDICTION REQUIREMENTS. WHERE WIRING IS ROUTED IN FREE AIR, PROVIDE J-HOOKS AT 6FT INTERVALS MAXIMUM AND NEATLY INSTALL.

▽ PATCH PANEL "C" - MEDIA / VIDEO - 48 PORT (LOCATED AT RETAIL TECH RACK)

POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION
1	C01	-	13	C13	CASH DESK - VIDEO WALL	25	C25	SALES FLOOR MEDIA	37	C37	-
2	C02	-	14	C14	CASH DESK - VIDEO WALL	26	C26	SALES FLOOR MEDIA	38	C38	-
3	C03	-	15	C15	-	27	C27	SALES FLOOR MEDIA	39	C39	-
4	C04	-	16	C16	-	28	C28	SALES FLOOR MEDIA	40	C40	-
5	C05	-	17	C17	-	29	C29	-	41	C41	SALES FLOOR - SURVEILLANCE
6	C06	-	18	C18	OD DESK - VIDEO WALL	30	C30	-	42	C42	SALES FLOOR - SURVEILLANCE
7	C07	-	19	C19	OD DESK - VIDEO WALL	31	C31	-	43	C43	SALES FLOOR - SURVEILLANCE
8	C08	-	20	C20	-	32	C32	-	44	C44	SALES FLOOR - SURVEILLANCE
9	C09	-	21	C21	-	33	C33	-	45	C45	SALES FLOOR - SURVEILLANCE
10	C10	-	22	C22	-	34	C34	-	46	C46	-
11	C11	-	23	C23	-	35	C35	-	47	C47	-
12	C12	-	24	C24	-	36	C36	-	48	C48	-

ROUTE CATEGORY 6 CABLING FROM EACH PORT ON THE PATCH PANEL TO THE CORRESPONDING JACK IDENTIFIED ON THE PLAN. ROUTE THE WIRING IN A CODE COMPLIANT FASHION, IN CONDUIT OR IN FREE AIR AS PER THE JURISDICTION REQUIREMENTS. WHERE WIRING IS ROUTED IN FREE AIR, PROVIDE J-HOOKS AT 6FT INTERVALS MAXIMUM AND NEATLY INSTALL.

▽ PATCH PANEL "D" - DDC - 48 PORT (LOCATED AT DDC TECH RACK)

POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION	POS	LBBEL	DESCRIPTION
1	D01	PRETEST - 1A	13	D13	-	25	D25	EXAM - 2B	37	D37	-
2	D02	PRETEST - 1B	14	D14	-	26	D26	EXAM - 2C	38	D38	-
3	D03	PRETEST - 1C	15	D15	-	27	D27	EXAM - 2D	39	D39	-
4	D04	PRETEST - 1D	16	D16	-	28	D28	EXAM - 2E	40	D40	-
5	D05	PRETEST - 1E	17	D17	EXAM - 1A	29	D29	EXAM - 2F	41	D41	-
6	D06	PRETEST - 1F	18	D18	EXAM - 1B	30	D30	EXAM - 2G	42	D42	-
7	D07	PRETEST - 2A	19	D19	EXAM - 1C	31	D31	EXAM - 2H	43	D43	-
8	D08	PRETEST - 2B	20	D20	EXAM - 1D	32	D32	-	44	D44	-
9	D09	PRETEST - 2C	21	D21	EXAM - 1E	33	D33	-	45	D45	-
10	D10	PRETEST - 2D	22	D22	EXAM - 1F	34	D34	-	46	D46	-
11	D11	PRETEST - 2E	23	D23	-	35	D35	-	47	D47	-
12	D12	PRETEST - 2F	24	D24	EXAM - 2A	36	D36	-	48	D48	-

ROUTE CATEGORY 6 CABLING FROM EACH PORT ON THE PATCH PANEL TO THE CORRESPONDING JACK IDENTIFIED ON THE PLAN. ROUTE THE WIRING IN A CODE COMPLIANT FASHION, IN CONDUIT OR IN FREE AIR AS PER THE JURISDICTION REQUIREMENTS. WHERE WIRING IS ROUTED IN FREE AIR, PROVIDE J-HOOKS AT 6FT INTERVALS MAXIMUM AND NEATLY INSTALL.

▽ PATCH PANEL "E" - OD MEDIA - 24 PORT (LOCATED AT DDC TECH RACK)

POS	LABEL	DESCRIPTION	POS	LABEL	DESCRIPTION	POS	LABEL	DESCRIPTION	POS	LABEL	DESCRIPTION
1	E01	OD RECEPTION - R1A	7	E07	OD WAP-1	13	E13	EXAM #1 MONITOR	19	E19	-
2	E02	OD RECEPTION - R1B	8	E08	OD WAP-1	14	E14	EXAM #1 MONITOR	20	E20	-
3	E03	OD RECEPTION - R2A	9	E09	-	15	E15	EXAM #2 MONITOR	21	E21	-
4	E04	OD RECEPTION - R2B	10	E10	-	16	E16	EXAM #2 MONITOR	22	E22	-
5	E05	-	11	E11	-	17	E17	-	23	E23	-
6	E06	-	12	E12	-	18	E18	-	24	E24	-

ROUTE CATEGORY 6 CABLING FROM EACH PORT ON THE PATCH PANEL TO THE CORRESPONDING JACK IDENTIFIED ON THE PLAN. ROUTE THE WIRING IN A CODE COMPLIANT FASHION, IN CONDUIT OR IN FREE AIR AS PER THE JURISDICTION REQUIREMENTS. WHERE WIRING IS ROUTED IN FREE AIR, PROVIDE J-HOOKS AT 6FT INTERVALS MAXIMUM AND NEATLY INSTALL.

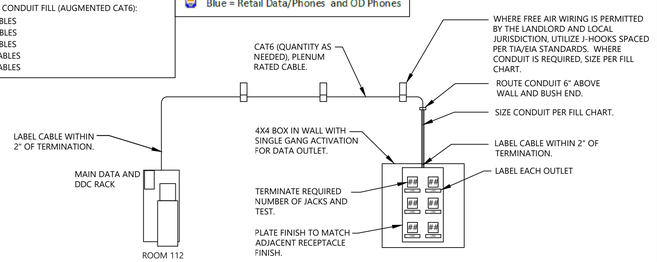
PATCH PANELS-LC09-E010-REV05

DETAIL NOTES

1. CONDUITS TO BE 3/4" UNLESS NOTED OTHERWISE. WHERE REQUIRED BY CODE OR LANDLORD, ALL LOW VOLTAGE WIRING TO BE IN CONDUIT.
2. JACK COLORS:
   - BLUE: GENERAL RETAIL FLOOR, MEDIAL, PHONES
   - WHITE: OD AREA JACKS AND PANEL
   - GREEN: RETAIL CASH WRAP
   - YELLOW: SECURITY CAMERAS
   - ORANGE: ACCESS POINTS AND TRAFFIC COUNTER
3. MAXIMUM ALLOWABLE CONDUIT FILL (AUGMENTED CAT6):
   - 3/4" C 2 DATA CABLES
   - 1"C 4 DATA CABLES
   - 1 1/4"C 7 DATA CABLES
   - 1 1/2"C 10 DATA CABLES
   - 2"C 18 DATA CABLES

JACK OUTLET COLOR

- Orange = WiFi/AP and Traffic Counter
- Yellow = Security Cameras
- White = OD and Store Manager
- Green = Retail Cash Wrap
- Blue = Retail Data/Phones and OD Phones



ED003 — COMMUNICATIONS RISER / ELECTRICAL INFORMATION - ONE DOOR STATE

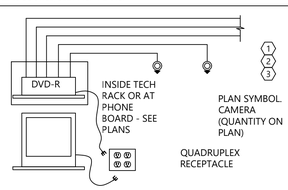
ED003-LC09-E010-REV04

ⓧ DETAIL KEY NOTES

1. EXTEND CABLE TO PROPOSED HEAD END EQUIPMENT LOCATION. PROVIDE ENOUGH EXCESS CABLE TO REACH ANY WALL IN BACK ROOM. COIL AND MARK CABLE AS CCTV. HEAD END EQUIPMENT LOCATION MUST BE WITHIN 10' OF THE 'NETWORK SWITCH ACCESS'.
2. FOR CAMERAS, PROVIDE WHITE PLENUM RATED CAT 6 CABLING. COIL 15' OF CABLING AT EACH CAMERA LOCATION FOR CONNECTIONS.
3. PROVIDE RJ-45 CONNECTORS AT CAMERA LOCATIONS ONLY. CONNECTORS NOT NEEDED AT THE HEAD END EQUIPMENT LOCATION.

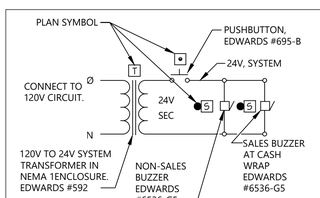
DETAIL NOTES

1. SECURITY CAMERAS SHALL NOT RECEIVE ANY ABOVE CEILING JUNCTION BOX. THE CAMERAS HAVE THEIR OWN RECESS MOUNT KITS. LOCATION OF CAMERAS SHALL BE MARKED CLEARLY IN ORDER FOR SECURITY CAMERA TECHNICIAN TO LOCATE. ALL WIRING TO BE PROVIDED AND INSTALLED PER ELECTRICAL PLANS. PAINT ENTIRE ASSEMBLY TO MATCH CEILING EXCEPT FOR LENS SOURCE, SEE ARCH PLANS.



ED005 — CCTV SYSTEM RISER

ED005-LC09-E010-REV04



DETAIL NOTES

DOOR BELL SYSTEM IS COMPRISED OF (3) COMPONENTS:

- (1) SERVICE DOOR PUSH-BUTTON (INSTALLED FACING THE REAR DOOR AT 44" AFF, 9" O.C. FROM THE LATCH SIDE OF THE DOOR.
- (1) STROBE/BELL, WALL MOUNTED. LOCATED AT 8'-0", ALIGN WITH LIGHT SWITCH AND OUTLET NEAR DOOR.
- (1) STROBE/BELL LOCATED ON THE RETAIL SALES FLOOR WALL MOUNTED AT 12'-0" AFF.

ED006 — DOOR BELL ENTRY RISER

ED006-LC09-E010-REV10

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
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STORE #1323
BRUNSWICK SQUARE MALL
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SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
△		
△		
△		
△		
△		
△		

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PROJECT NUMBER: 25-0381

Seal

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: ELECTRICAL GENERAL NOTES & DETAILS

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: E010

1 FIXTURE DETAIL

VISION CENTER
LC09-PCDF-VC-8
LC09-PCDF-VC-8

POWER FED FROM JUNCTION BOX

LC09-PCDF-VC-8	VISION CENTER SIGNAGE

LC09-PCDF-VC-8-E011-REV04

2 FIXTURE DETAIL

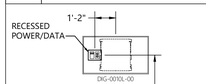
LENSCRAFTERS
LC09-PCDF-LC-24
LC09-PCDF-LC-24

EXISTING JUNCTION BOX FOR CONNECTION PROVIDED BY LANDLORD.

LC09-PCDF-LC-24	STOREFRONT SIGNAGE

LC09-PCDF-LC-24-E011-REV04

3 FIXTURE DETAIL



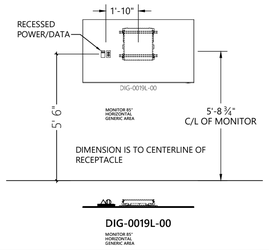
DETAIL NOTE:

1. IN EXAM ROOMS, WHEN MONITOR IS MOUNTED NEXT TO MIRROR OR C600 ESSILOR CHART, ALIGN BOTTOM OF MONITOR POWER/DATA RECEPTACLES WITH BOTTOM OF MIRROR/ESSILOR CHART.
   - 65" IN EXAM #2
   - 74" IN EXAM #1

DIG-0010L	50" DIGITAL MONITOR

DIG-0010L-E011-REV04

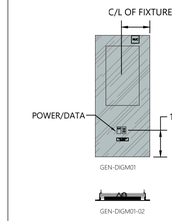
4 FIXTURE DETAIL



DIG-0019L	85" DIGITAL MONITOR

DIG-0019L-E011-REV04

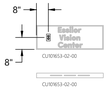
5 FIXTURE DETAIL



GEN-DIGM01-02	46" DIGITAL TOUCH MONITOR

GEN-DIGM01-02-E011-REV08

6 FIXTURE DETAIL



POWER FED FROM RECEPTACLE BEHIND SIGN

CU101653-02-00	VISION CENTER INTERIOR SIGNAGE

CU101653-02-00-E011-REV08

7 FIXTURE DETAIL

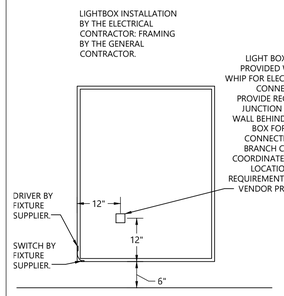
NOTE:
1. FINISH TO BE ALUMINUM.

	BOX CALL OUT ON PLANS
	FLOOR BOX
POKE THRU FITTING	
FLOOR BOX	SYSTEMONE FLOOR BOX HUBBELL CFBS1R4PFB W/CUP
SUB PLATES	SYSTEMONE SUB-PLATE S1R4SP2X2DUPLEX
COVER / FLANGE	CFBS1R4CVRALU (CARPET)

ED008	LC09 FLOOR BOX / POKE THRU SCHEDULE

ED008-E011-REV04

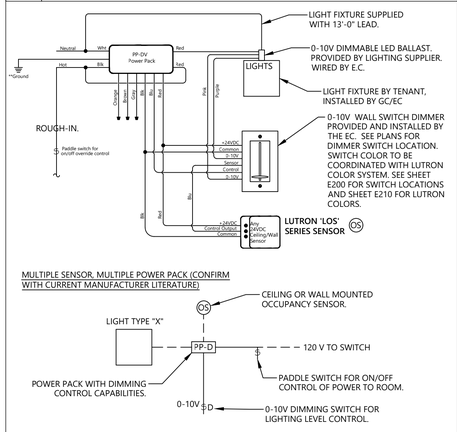
8 FIXTURE DETAIL



ED050	LIGHT BOX ELECTRICAL INFORMATION

ED050-E011-REV07

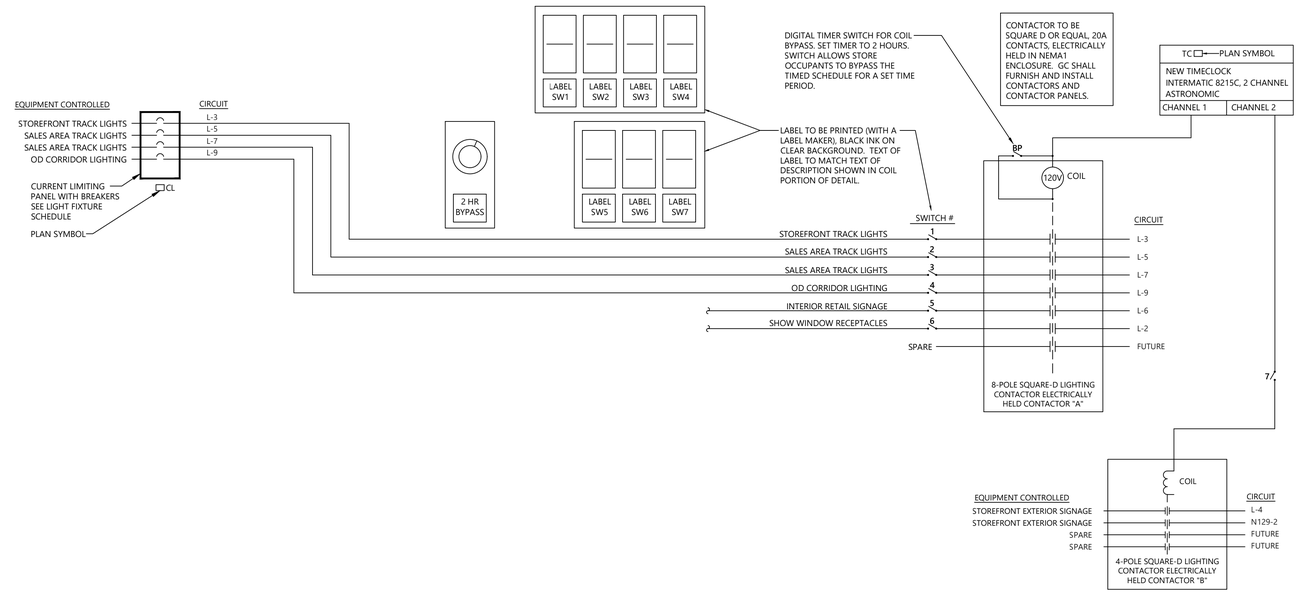
9 FIXTURE DETAIL



ED059	LOW VOLTAGE LIGHTING CONNECTION DETAIL

ED059-E011-REV04

10 FIXTURE DETAIL



ED033	SWITCH BANK AND ASSOCIATED CONTACTORS, PHOTOSWITCH WHEN EXTERIOR CONTROL IS REQUIRED

ED033-E011-REV09

DESIGN & CONSTRUCTION MANAGEMENT:

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EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
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Engineer of Record

WNA ENGINEERING

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PROJECT NUMBER: 25-0381

Seal

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number: 101653

Brand Design Type: LC10

ISSUED FOR:
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☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: ELECTRICAL GENERAL NOTES & DETAILS

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: E011

C ELECTRICAL ONE LINE DIAGRAM

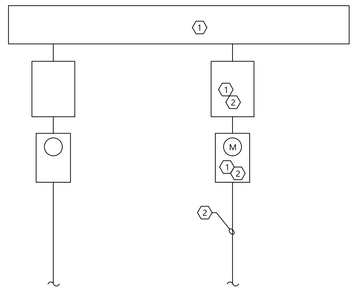
ⓧ DETAIL KEY NOTES

1. EXISTING LANDLORD EQUIPMENT TO REMAIN.
2. LANDLORD TO PROVIDE SERVICE DISCONNECT, METERING EQUIPMENT, CONDUITS AND CONDUCTORS TO NEW TENANT ELECTRICAL ROOM.
3. LANDLORD PROVIDED ELECTRICAL PANEL "N129".
4. LANDLORD PROVIDED TIMECLOCK FOR EXTERIOR LIGHTING AND STOREFRONT SIGN.
5. NEW TENANT ELECTRICAL PANEL.
6. NEW DIGITAL TIMECLOCK.
7. NEW CURRENT LIMITING PANEL.
8. NEW CONTACTOR PANEL.

NO SURVEY PHOTO OF EXISTING CONDITIONS

EXISTING CONDITIONS
(FOR REFERENCE)

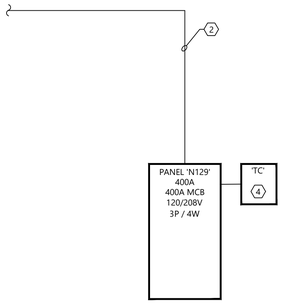
EXISTING LANDLORD SPACE



EXISTING TENANT SPACE

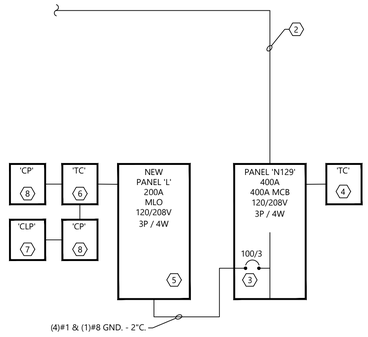
EXISTING CONDITIONS

LANDLORD ◄ ► TENANT



NEW TENANT SPACE - ROOM 112

NEW CONDITIONS



ED044

ED044-LC09-E020-REV04

A FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATIC. THE GENERAL 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 GENERAL 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 GENERAL CONTRACTORS COST.

BIDDING GENERAL 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.

A-LC09-E020-REV04

UTILITY ACCOUNT TRANSFER/SETUP

GENERAL CONTRACTOR'S SUPERINTENDENT SHALL CONTACT THE LL'S PROPERTY MANAGER UPON ARRIVAL AT THE METER INSTALLATIONS FOR GAS/ELECTRIC/WATER:

FOR NEW AND RELOCATED STORES ONLY:

1. AT THE START OF CONSTRUCTION THE GC IS TO CONTACT SCHNEIDER ELECTRIC AT:

LUXOTTICA@SE.COM, CC'ING JASON WATKINS (JASON.WATKINS@SE.COM) AND LEO GARCIA (LEONEL.GARCIA@SE.COM) SO THAT SCHNEIDER MAY TRANSFER AND ESTABLISH THE UTILITY OVER TO ESSILOR LUXOTTICA. WHEN CONTACTING SCHNEIDER, THE GC SHALL CONVEY THE FOLLOWING INFORMATION:

A. STORE ADDRESS AND SPACE NUMBER.
B. EACH UTILITY COMPANY'S NAME AND PHONE NUMBERS FOR NATURAL GAS OR PROPANE, ELECTRIC, WATER, SEWER, AND WASTE.
C. THE METER AND SOCKET NUMBERS (WHICHEVER OS APPLICABLE), FOR EACH UTILITY ACCOUNT TO BE ESTABLISHED IN LUXOTTICA'S NAME.
D. A PHOTOGRAPH OF EACH METER, IT'S METER NUMBER AND SERIAL NUMBER IS BEST, AND THEN E-MAILED TO SCHNEIDER: LUXOTTICA@SE.COM

FOR OPEN/CLOSE REQUESTS OUTSIDE OF THE STANDARD SOR PROCESS, AN EMAIL SHOULD BE SENT TO LUXOTTICA@SE.COM INCLUDE IN THE EMAIL:

- METER NUMBERS AND UTILITY NAMES FOR ALL REQUESTED SERVICES.
- SITE NAME, NUMBER AND ADDRESS.
- ACTION REQUESTED (OPEN ACCOUNT, CLOSE ACCOUNT, ETC.)

ONCE THE ABOVE INFORMATION IS PROVIDED, THE OPEN TEAM WILL:

- CONTACT THE UTILITY AND ESTABLISH NEW ACCOUNTS
- PAY DEPOSITS IF REQUIRED
- REQUEST APPLICATION SIGNATURE FROM BILL BALSAMO (IF REQUIRED)
- FOLLOW UP UNTIL THE FIRST INVOICE IS RECEIVED AT CASS.
- CONTACT THE PM IF ADDITIONAL INFORMATION IS NEEDED.

E017 UTILITY ACCOUNT TRANSFER/SET UP

E017-LC09-E020-REV10

B FIRESTOP SCHEDULE - ELECTRICAL

FIRESTOP SCHEDULE - ELECTRICAL

TYPE OF PENETRANT	F-RATING (HR)	CONCRETE FLOOR	CONCRETE OR BLOCK WALLS	GYPSUM WALLS	WOOD FLOORS	BASIS OF DESIGN HILTI PRODUCTS
		BASIS OF DESIGN UL SYSTEM				
METAL PIPES OR CONDUIT	1	C-AJ-1226, F-A-1017, F-A-1028, F-B-1026	C-AJ-1226, W-J-1020, W-J-1067	W-L-1054, W-L-1058, W-L-1164, W-L-1506, W-L-5029	F-C-1009, F-C-1059, F-C-1168	CFS-D, CFS-DID, CFS-S SIL GG, CFS-S SIL SL, CFS-SP WB, CP 606, CP 637, CP 680-M, CP 680-P, FS-ONE MAX, MINERAL WOOL
	2	C-AJ-1226, C-AJ-1630, F-A-1017, F-A-1028, F-B-1026	C-AJ-1226, W-J-1020, W-J-1067, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506, W-L-5029	F-C-1009, F-C-1059, F-C-1168	
	3	C-AJ-1140, C-AJ-1226, C-AJ-1630, F-A-1017, F-B-1026	C-AJ-1226, W-J-1041, W-J-1068	W-L-1252, W-L-5029	-	
	4	C-AJ-1630, C-BJ-1034, C-BJ-1037, F-A-1091	C-BJ-1034, C-BJ-1037, W-J-1041, W-J-1042, W-J-1068	W-L-1110, W-L-1111, W-L-1165, W-L-1252	-	
NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT) (SEE NOTE 10)	1	C-AJ-2098, C-AJ-2109, C-AJ-2167, C-AJ-2271, C-AJ-2342, C-BJ-2021, F-A-2025, F-A-F-A-2054, C-AJ-2109, C-AJ-2098, C-AJ-2371, C-AJ-2342	C-AJ-2098, C-AJ-2109, C-AJ-2167, C-AJ-2342, C-AJ-2371	W-L-1252, W-L-2075, W-L-2078, W-L-2128, W-L-2447	F-C-2030, F-C-2160, F-C-2232, F-C-2389	CFS-S SIL GG, CFS-S SIL SL, CP 643 N, CP 644, CP 648-E, CP 648-S, CP 680-P, FS-ONE MAX, MINERAL WOOL
	2	C-AJ-2098, C-AJ-2109, C-AJ-2167, C-AJ-2271, C-AJ-2342, C-BJ-2021, F-A-2025, F-A-F-A-2054, C-AJ-2109, C-AJ-2098, C-AJ-2371, C-AJ-2342	C-AJ-2098, C-AJ-2109, C-AJ-2167, C-AJ-2342, C-AJ-2371	W-L-1252, W-L-2075, W-L-2078, W-L-2128, W-L-2447	F-C-2029, F-C-2030, F-C-2128, F-C-2160	
	3		C-AJ-2098, C-AJ-2109, C-AJ-2342, C-AJ-2371	W-L-1252, W-L-2184, W-L-2245, W-L-2447	-	
	4	C-AJ-2017, C-BJ-2016, F-A-2166	C-BJ-2017, W-J-2057, W-J-2091	W-L-1252, W-L-2184, W-L-2245, W-L-2447	-	
SINGLE OR BUNDLED CABLES	1	C-AJ-3095, C-AJ-3180, C-AJ-3283, F-A-3007, F-A-3060	C-AJ-3095, W-J-3036, W-J-3060, W-J-3167, W-J-3189	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3385, W-L-3396, W-L-3413	F-C-3012, F-C-3044, F-C-3110	CFS-CC, CFS-COS, CFS-D, CFS-PL, CFS-S SIL GG, CFS-T, CP 606, CP 617, CP 618, CP 619 T, CP 653 BA, CP 680-M, CP 680-P, FS-ONE MAX, MINERAL WOOL
	2	C-AJ-3095, C-AJ-3180, C-AJ-3283, C-AJ-8250, F-A-3007, F-A-3060	C-AJ-3095, C-AJ-8250, W-J-3036, W-J-3060, W-J-3167, W-J-3189	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3385, W-L-3396, W-L-3413	F-C-3012, F-C-3110	
	3	C-AJ-3095, C-AJ-3180, C-AJ-3285, C-AJ-8250, F-A-3007	C-AJ-3095, C-AJ-3180, C-AJ-8250, W-J-3167	W-L-3277, W-L-3334, W-L-3385	-	
	4	C-AJ-8250, C-BJ-3031, C-BJ-3032	C-AJ-8250, C-BJ-3031, W-J-3050, W-J-3167	W-L-3139, W-L-3277, W-L-3334	-	
CABLE TRAY	1	C-AJ-4034, C-AJ-4035	C-AJ-4034, C-AJ-4035, W-J-4027	W-L-4011, W-L-4019, W-L-4081	-	CFS-BL, CFS-COS, CP 617, CP 618, CP 619 T, CP 620, CP 660, FS-ONE MAX
	2	C-AJ-4034, C-AJ-4035, C-AJ-4107	C-AJ-4034, C-AJ-4035, W-J-4027	W-L-4011, W-L-4019, W-L-4081	-	
	3	C-AJ-4034, C-AJ-4035, C-AJ-4107	C-AJ-4034, C-AJ-4035	W-L-8014	-	
	4	C-AJ-4107	C-AJ-4107, W-J-4060, W-J-8007	W-L-8014	-	
ELECTRICAL BUSWAY	1	C-AJ-6006, C-AJ-6017, C-AJ-6036, F-A-6002	C-AJ-6006, C-AJ-6017, C-AJ-6036	W-L-6019	-	CFS-BL, CFS-S SIL GG, CFS-S SIL SL, CP 618, CP 620, CP 637, CP 660, FS-ONE MAX, MINERAL WOOL
	2	C-AJ-6006, C-AJ-6017, C-AJ-6036, F-A-6002	C-AJ-6006, C-AJ-6017, C-AJ-6036	W-L-6019	-	
	3	C-AJ-6006, C-AJ-6017	C-AJ-6006, C-AJ-6017	-	-	

NOTES:
1. BASIS OF DESIGN SHALL BE HILTI, INC. OTHER ASTM E814 AND UL 1479 LISTED THROUGH PENETRATION SYSTEMS ARE ACCEPTABLE.
2. SCHEDULE DOES NOT INCLUDE ALL LISTED THROUGH PENETRATION SYSTEMS. REFER TO MANUFACTURER'S TECHNICAL LIBRARY: (hilti.com/firestops) or (constructionplatform.hilti.com).
3. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED.
4. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN SCHEDULE ABOVE, CONTACT HILTI FOR ALTERNATIVE SYSTEMS.
5. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH.
6. COORDINATE WORK WITH OTHER TRADES TO ASSURE THAT PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRATION LOCATIONS, AND VICE VERSA.
7. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND FLOOR RATINGS.
8. SUBMIT SHOP DRAWING OF EACH PROPOSED PENETRATION SYSTEM FOR APPROVAL BY ENGINEER.
9. MAINTAIN A LOG BOOK OF PENETRATION SYSTEM USED ALONG WITH MANFUFACTURER'S SYSTEM. LOG BOOK SHALL BE AVALIABLE FOR INSPECTION BY AHJ AND/OR ENGINEER.
10. ALL NON METALIC PIPE OR CONDUIT PENETRATIONS ARE APPROVED FOR USE ONLY IN UNITED STATES.

C-LC09-E020-REV04

ELECTRICAL LOAD SUMMARY 'N129'

LOAD DESCRIPTION	CONNECTED LOAD (KW)	DEMAND FACTOR	DEMAND FACTOR (KW)
LIGHTING	1.56	1.25	1.95
TRACK LIGHTING	4.20	CURRENT LIMITED *1.25	5.25
SHOW WINDOW RECEPTACLES	0.54	1	0.54
SIGNAGE	3.60	1.25	4.50
RECEPTACLES	26.18	<10K=100%; >10K=10K+50%>10k	18.09
EQUIPMENT	2.28	1	2.28
WATER HEATING	5.00	1.25	6.25
HVAC	25.92	1.25*(LARGEST MOTOR)+1*(REST OF HVAC LOAD)	26.25
TOTALS:	69.281	TOTALS:	65.11
AMPS (208V)	192.5	AMPS (208V)	180.9

ELECTRICAL LOAD SUMMARY 'L'

LOAD DESCRIPTION	CONNECTED LOAD (KW)	DEMAND FACTOR	DEMAND FACTOR (KW)
LIGHTING	1.52	1.25	1.90
TRACK LIGHTING	4.20	CURRENT LIMITED *1.25	5.25
SHOW WINDOW RECEPTACLES	0.54	1	0.54
SIGNAGE	2.40	1.25	3.00
RECEPTACLES	9.08	<10K=100%; >10K=10K+50%>10k	9.54
EQUIPMENT	1.90	1	1.90
WATER HEATING	-	1.25	-
HVAC	-	1.25*(LARGEST MOTOR)+1*(REST OF HVAC LOAD)	-
TOTALS:	19.640	TOTALS:	22.13
AMPS (208V)	54.6	AMPS (208V)	61.5

Panel Name: N129 (EXISTING)
Voltage: 120/208 — Panel Type: PANELBOARD
Amps: 400 — AIC Rating: 10K
MCB: 400 Main Circuit breaker amps

NOTE: //INDICATES AN EXISTING CIRCUIT TO REMAIN//

WATTS PER PHASE A	WATTS PER PHASE B	WATTS PER PHASE C	DESCRIPTION OF LOAD	OCPD	CKT#	CKT#	OCPD	DESCRIPTION OF LOAD	WATTS PER PHASE A	WATTS PER PHASE B	WATTS PER PHASE C
41			//SIDEWALK LIGHTING//	20/1	1	2	20/1	//STORE SIGN//	1200		
	180		//PANEL SERVICE RECEPTACLE//	20/1	3	4	20/1	RECIRCULATION PUMP		106	
		5160			5	6					3480
5160			//ERTU-1//	50/3	7	8	45/3	//ERTU-2//	3480		
	5160				9	10				3480	
		360	//HVAC SERVICE RECEPTACLES//	20/1	11	12	40/2	WATER HEATER			2500
180			FIRE ALARM PANEL	20/1	13	14			2500		
	1200		EQ45D	20/1	15	16	20/1	TECH RACK		360	
		1500	EQ47E	20/1	17	18	20/1	TECH RACK			360
720			EQ6A, EQ11A, EQ24	20/1	19	20	20/1	TECH RACK	180		
	1000		EQ22A	20/1	21	22	20/1	TECH RACK		360	
		1200	105 PRETEST RECEPTACLES	20/1	23	24	20/1	115 CONTACTS RECEPTACLES			360
720			105 PRETEST RECEPTACLES	20/1	25	26	20/1	103 OFFICE RECEPTACLES	540		
	1200		106 PRETEST RECEPTACLE	20/1	27	28	20/1	REFRIGERATOR		400	
		720	106 PRETEST RECEPTACLE	20/1	29	30	20/1	MICROWAVE			1000
1200			114 EXAM RECEPTACLES	20/1	31	32	20/1	WATER DISPENSER	180		
	720		114 EXAM RECEPTACLES	20/1	33	34	20/1	BOH CONVENIENCE RECEPTACLES		360	
		1200	113 EXAM RECEPTACLES	20/1	35	36	20/1	SPARE			
720			113 EXAM RECEPTACLES	20/1	37	38			7210		
	180		113 EXAM RECEPTACLES	20/1	39	40	100/3	PANEL "L"		4540	
		180	113 EXAM RECEPTACLES	20/1	41	42					7990
8741	9640	10320	Totals					Totals	15290	9600	15690

Load Characteristics:
Total Load, Phase A: 24031 — Amps per Phase A: 200
Total Load, Phase B: 19240 — Amps per Phase B: 160
Total Load, Phase C: 26010 — Amps per Phase C: 217
Total Panel Load: 69281 — Total Amps (assumes balanced): 193

Panel Name: L (NEW)
Voltage: 120/208 — Panel Type: PANELBOARD
Amps: 200 — AIC Rating: 10K
MCB: MLO Main Circuit breaker amps

NOTE: **INDICATED A GFCI TYPE CIRCUIT BREAKER

WATTS PER PHASE A	WATTS PER PHASE B	WATTS PER PHASE C	DESCRIPTION OF LOAD	OCPD	CKT#	CKT#	OCPD	DESCRIPTION OF LOAD	WATTS PER PHASE A	WATTS PER PHASE B	WATTS PER PHASE C
100			TIMECLOCK/ CONTACTORS	20/1	1	2	20/1	SHOW WINDOW RECEPTACLES	540		
	240		STOREFRONT TRACK LIGHTS	20/1	3	4	20/1	STOREFRONT EXTERIOR SIGNAGE		1200	
		1560	SALES AREA TRACK LIGHTS	20/1	5	6	20/1	INTERIOR RETAIL SIGNAGE			1200
1560			SALES AREA TRACK LIGHTS	20/1	7	8	20/1	STOREFRONT MONITOR	180		
	840		OD CORRIDOR LIGHTING	20/1	9	10	20/1	SMARTSHOPPER		180	
		1520	OD ROOM LIGHTING	20/1	11	12	20/1	SELECT TABLE RECEPTACLES			720
1080			OD CORRIDOR CONVENIENCE RECEPTACLES	20/1	13	14	20/1	SELECT TABLE RECEPTACLES	720		
	180		**EWCS**	20/1	15	16	20/1	RETAIL BACKWRAP MONITOR AND SIGNAGE		1000	
		600	LIGHT BOX	20/1	17	18	20/1	CASH DESK RECEPTACLES			720
360			110 OFFICE RECEPTACLES	20/1	19	20	20/1	CASH DESK RECEPTACLES	720		
	180		AI TABLE POWER	20/1	21	22	20/1	OD RECEPTION DESK RECEPTACLES		720	
		950	HAND DRYER	20/1	23	24	20/1	OD RECEPTION DESK RECEPTACLES			720
950			HAND DRYER	20/1	25	26	20/1	OD BACKWRAP MONITOR AND SIGN	1000		
			SPARE	20/1	27	28	20/1	SPARE			
			SPARE	20/1	29	30	20/1	SPARE			
			SPARE	20/1	31	32	20/1	SPARE			
			SPARE	20/1	33	34	20/1	SPARE			
			SPARE	20/1	35	36	20/1	SPARE			
			SPARE	20/1	37	38	20/1	SPARE			
			SPARE	20/1	39	40	20/1	SPARE			
			SPARE	20/1	41	42	20/1	SPARE			
4050	1440	4630	Totals					Totals	3160	3100	3360

Load Characteristics:
Total Load, Phase A: 7210 — Amps per Phase A: 60
Total Load, Phase B: 4540 — Amps per Phase B: 38
Total Load, Phase C: 7990 — Amps per Phase C: 67
Total Panel Load: 19740 — Total Amps (assumes balanced): 55

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
BRUNSWICK SQUARE MALL
755 NJ-18
SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
△		
△		
△		
△		
△		
△		

Engineer of Record

WNA ENGINEERING, INC.
CONSULTING ENGINEERS
WWW.WNAENGINEERING.COM
PORTERSVILLE | PITTSBURGH | PHILADELPHIA
724.388.8133 | 412.208.1372 | 215.885.5900

PROJECT NUMBER: 25-0381

Seal

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: **12**

EssilorLuxottica Project Number 101653

Brand Design Type: **LC10**

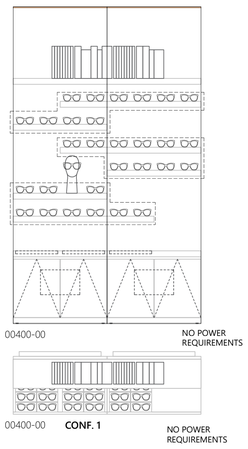
ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: ELECTRICAL PANEL SCHEDULE(S)

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: E020

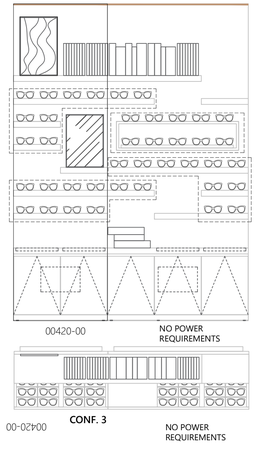
1 FIXTURE ELEVATION



00400-00	63" WALL UNIT

00400-00-LC09-E030

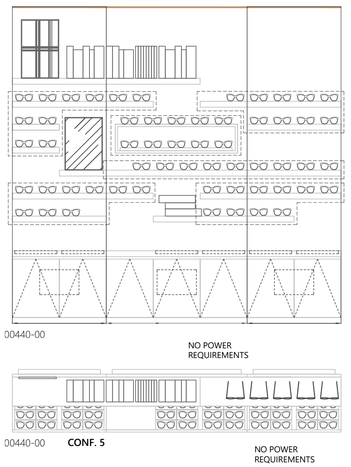
2 FIXTURE ELEVATION



00420-00	79" WALL UNIT

00420-00-LC09-E030

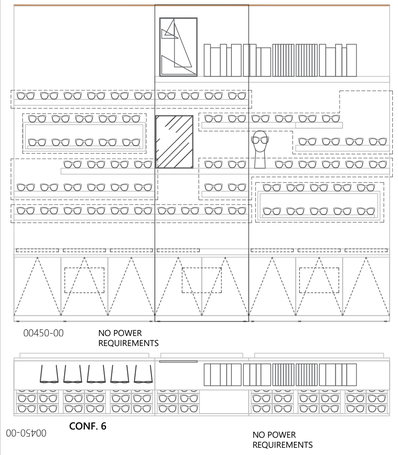
3 FIXTURE ELEVATION



00440-00	110" WALL UNIT

00440-00-LC09-E030

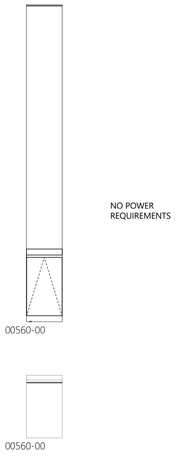
4 FIXTURE ELEVATION



00450-00	126" WALL UNIT

00450-00-LC09-E030

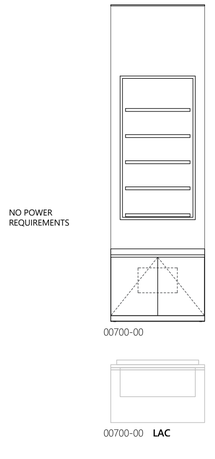
5 FIXTURE ELEVATION



00560-00	12" WALL UNIT

00560-00-LC09-E030

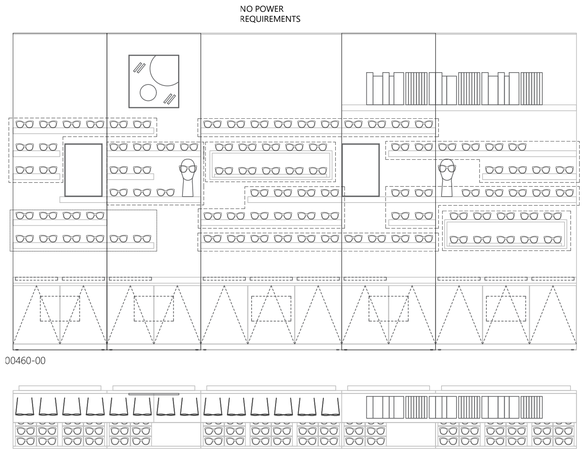
6 FIXTURE ELEVATION



00700-00	31" WALL UNIT

00700-00-LC09-E030

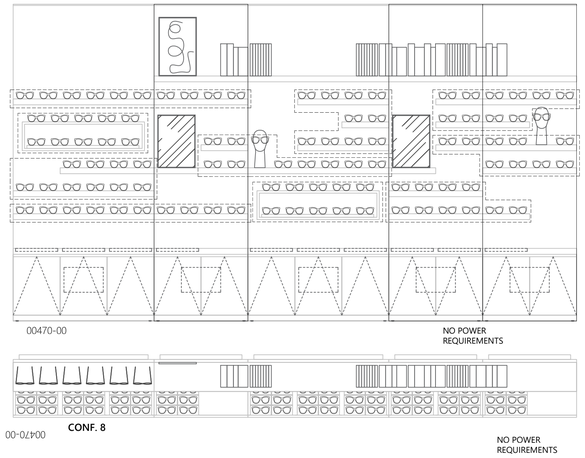
7 FIXTURE ELEVATION



00460-00	189" WALL UNIT

00460-00-LC09-E030

8 FIXTURE ELEVATION

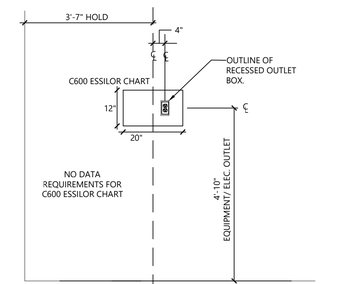


00470-00	189" WALL UNIT

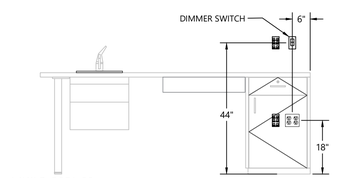
00470-00-LC09-E030

9 FIXTURE ELEVATION

EQUIPMENT ELECTRICAL/MECHANICAL REQUIREMENTS					
ID	DESCRIPTION	VOLT	AMP	BTU	NOTES
EQ6A	LENSOMETER (AUTO)	120	1	X	NEMA #5 - 20R
EQ109B	REFRACTION STAND	120	2.1	X	REQUIRES DATA
EQ108	PATIENT CARE	N/A			

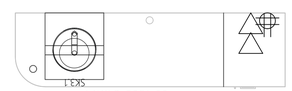


ELEVATION



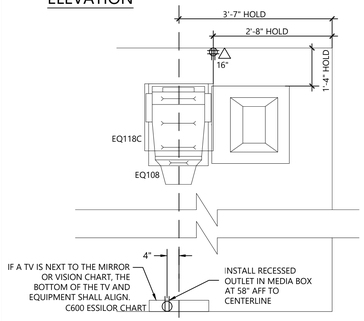
LCGLB-3851-00

ELEVATION

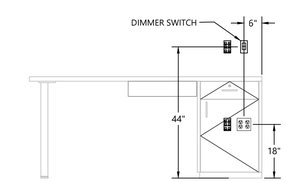


LCGLB-3851-00

PLAN

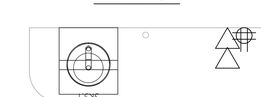


PLAN



CU101653-02-00

ELEVATION



CU101653-02-00

PLAN

E114	REFRACTION (EXAM) ROOM ELECTRICAL INFORMATION C600 ESSILOR CHART IN FRONT OF EQ108 CHAIR

E114-LC09-E030-REV06

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
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STORE #1323
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SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
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Engineer of Record

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724.368.8133 | 412.208.1372 | 215.885.5900
PROJECT NUMBER: 25-0381

Seal

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

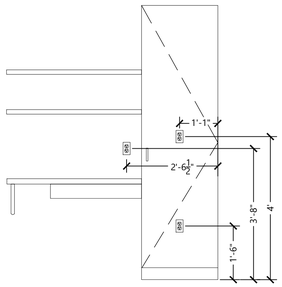
ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
ELECTRICAL CASEWORK DETAILS

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: E030

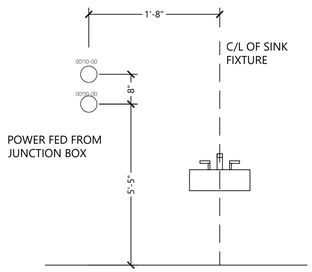
1 FIXTURE ELEVATION



LCGLB-3890	BREAK ROOM DESK

LCGLB-3890-LC09-E031-REV10

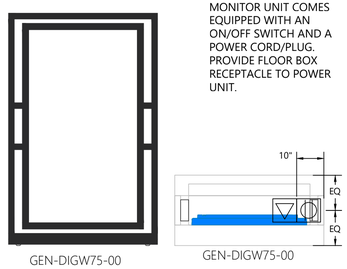
2 FIXTURE ELEVATION



00110-00	BATHROOM WALL SCONCE

00110-00-LC09-E031-REV06

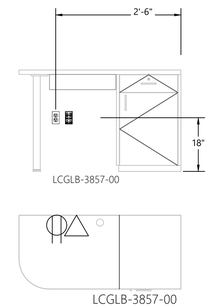
3 FIXTURE ELEVATION



GEN-DIGW75-00	RETAIL MONITOR

GEN-DIGW75-00-LC09-E031-REV06

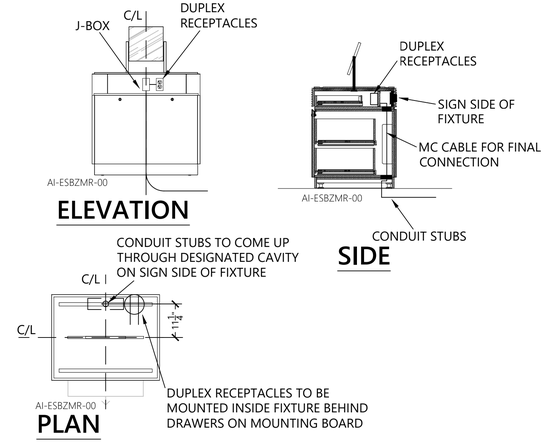
4 FIXTURE ELEVATION



LCGLB-3857-00	OFFICE DESK

LCGLB-3857-00-LC09-E031-REV06

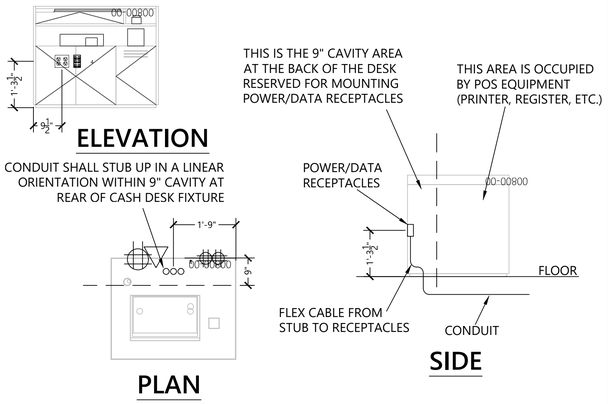
5 FIXTURE ELEVATION



AI-ESBZMR-00	RETAIL DISPLAY

AI-ESBZMR-00-LC09-E031-REV06

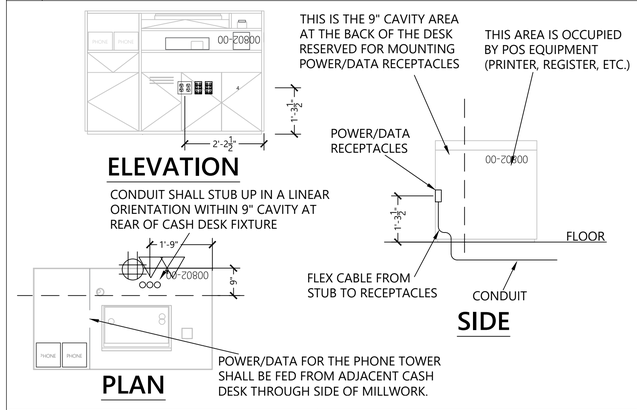
6 FIXTURE ELEVATION



00800-00	CASH DESK

00800-00-LC09-E031-REV08

7 FIXTURE ELEVATION

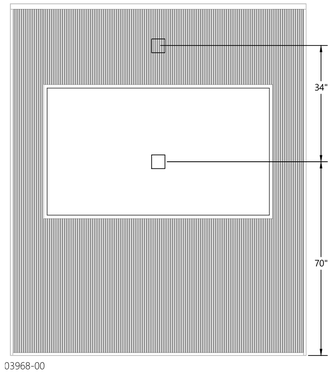


00802-00	CASH DESK

00802-00-LC09-E031-REV08

8 FIXTURE ELEVATION

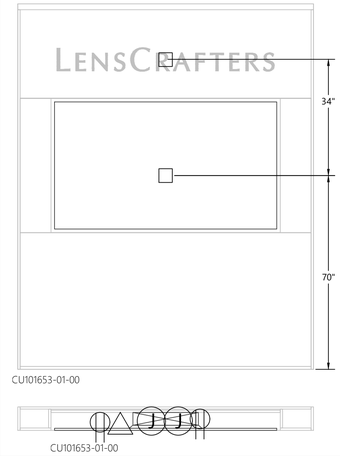
POWER/DATA SHALL BE FED FROM WALL INTO BACKWRAP CABINET FOR POWER/DATA RECEPTACLES MOUNTED WITHIN. COORDINATE WITH FURNITURE VENDOR FOR CONNECTION AND MOUTNING REQUIREMENTS.



03968-00-LC09-E031-REV06

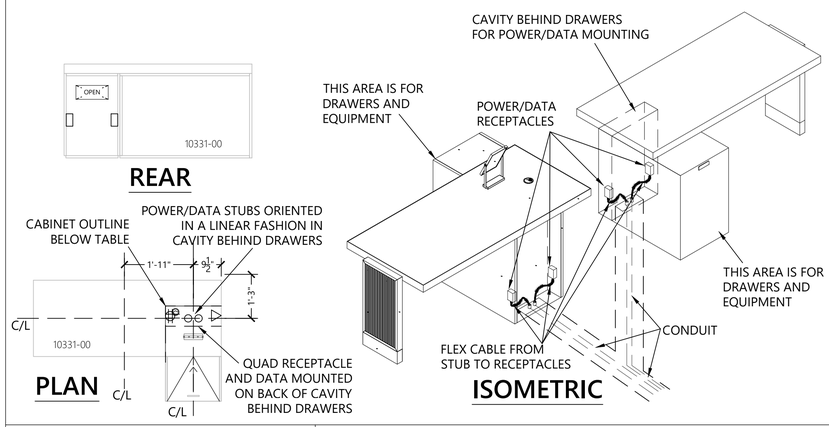
9 FIXTURE ELEVATION

POWER/DATA SHALL BE FED FROM WALL INTO BACKWRAP CABINET FOR POWER/DATA RECEPTACLES MOUNTED WITHIN. COORDINATE WITH FURNITURE VENDOR FOR CONNECTION AND MOUTNING REQUIREMENTS.



CU101653-01-00-LC09-E031-REV06

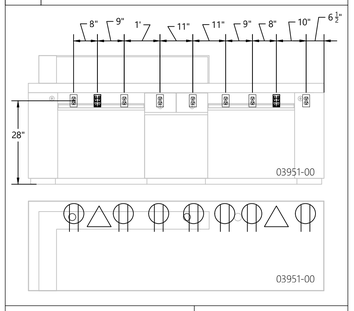
10 FIXTURE ELEVATION



10331-00	CASH DESK

10331-00-LC09-E031-REV09

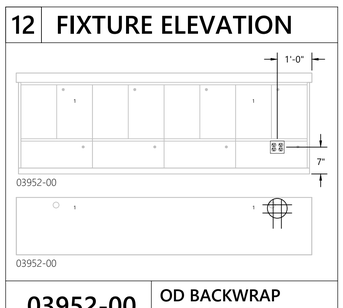
11 FIXTURE ELEVATION



03951-00	OD RECEPTION DESK

03951-00-LC09-E031-REV06

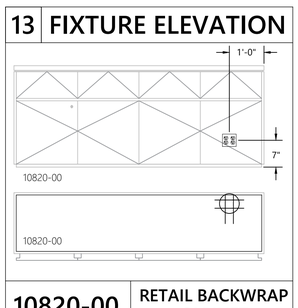
12 FIXTURE ELEVATION



03952-00	OD BACKWRAP CABINET

03952-00-LC09-E031-REV06

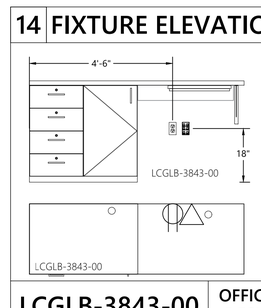
13 FIXTURE ELEVATION



10820-00	RETAIL BACKWRAP CABINET

10820-00-LC09-E031-REV06

14 FIXTURE ELEVATION



LCGLB-3843-00	OFFICE DESK

LCGLB-3857-00-LC09-E031-REV06

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Construction for:

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Revisions:

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Engineer of Record

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PROJECT NUMBER: 25-0381

Seal

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name: ELECTRICAL CASEWORK DETAILS

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: E031

A KEY NOTES - ELECTRICAL EXISTING CONDITIONS

1. PER LANDLORD WORK LETTER, LANDLORD TO PROVIDE POWER TO TENANT LOCATION INCLUDING SERVICE SHUTOFF, METERING EQUIPMENT, SERVICE CONDUIT AND CONDUCTORS. SEE SHEET ONELINE DIAGRAM ON SHEET E020.
2. PER LANDLORD WORK LETTER, LANDLORD TO PROVIDE 2" CONDUIT WITH PULL STRING FROM LANDLORD TELECOM ROOM, WITH ACCESS POINTS FOR PULLS, AND NO HARD 90 DEGREE TURNS. SEE TECH RACK DETAILS ON SHEET E010.
3. PER LANDLORD WORK LETTER, LANDLORD IS TO PROVIDE CONNECTION IN 1" CONDUIT TO LANDLORD FIRE ALARM PANEL. COORDINATE CONNECTION OF NEW FIRE ALARM DEVICES WITH LANDLORD AND LANDLORD'S FIRE ALARM CONTRACTOR.
4. LANDLORD PROVIDED JUNCTION BOX INSTALLED WITHIN 2" OF UNDERSIDE OF ROOF DECK FOR FUTURE STOREFRONT SIGNAGE.
5. LANDLORD PROVIDED EXTERIOR LIGHT FIXTURE TO REMAIN.
6. LANDLORD PROVIDED PHOTOCELL FOR DAYLIGHT SENSING TO REMAIN.
7. LANDLORD PROVIDED RTU AND SERVICE RECEPTACLES TO REMAIN.
8. LANDLORD PROVIDED EXIT SIGN FED FROM TENANT PANEL 'N129'.
9. LANDLORD PROVIDED MAINTENANCE RECEPTACLE TO REMAIN.
10. LANDLORD PROVIDED TIMECLOCK FOR EXTERIOR LIGHTING CONTROL TO REMAIN.

A-LC09-E100-REV04

B GENERAL EXISTING CONDITION NOTES

A. IN EVERY INSTANCE OF REMODELING, THE E.C. SHALL FIGURE A COMPLETE JOB AS NONE OTHER SHALL BE ACCEPTED.

B. THE E.C. MUST VISIT THE SITE PRIOR TO BIDDING TO VERIFY ALL WORK REQUIRED FOR A COMPLETE JOB & INCLUDE THE COST OF SUCH WORK IN HIS BID.

C. THE E.C. SHALL MAINTAIN EXISTING SERVICES TO & IN THE EXISTING AREA AS REQUIRED.

D. IF NECESSARY, THE E.C. SHALL PROVIDE TEMPORARY SERVICES IN THE EXISTING AREAS.

E. ANY EXISTING CONDUIT, WIRING AND/OR ELECTRICAL & MECHANICAL DEVICES BEING DISTURBED BY THE WORK SHALL BE REWORKED BY THIS CONTRACTOR AS REQUIRED TO RETURN TO ITS FORMER EXISTING OPERATING CONDITION.

F. ALL WALLS, CEILINGS, FLOORS, ETC., BEING DISTURBED BY THE WORK SHALL BE RETURNED TO FINISHED CONDITIONS TO MATCH EXISTING BY THE E.C. & THEY SHALL DO THEIR OWN CUTTING & PATCHING AS NECESSARY UNDER THEIR CONTRACT.

G. EXISTING MATERIALS SHALL BE TURNED OVER TO THE OWNER. IF NOT REQUIRED BY OWNER, THE E.C. SHALL REMOVE THESE MATERIALS FROM THE PREMISES.

H. NO CONDUIT, BOXES, WIRING, OR CABLES SHALL BE INSTALLED WITHIN 1 1/2" OF THE LOWEST POINT OF THE UNDERSIDE OF THE ROOF DECKING, NOR SHALL THEY BE INSTALLED CONCEALED WITHIN METAL-CORRUGATED ROOF DECKING. THE E.C. SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT, BOXES, WIRING, AND CABLING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.

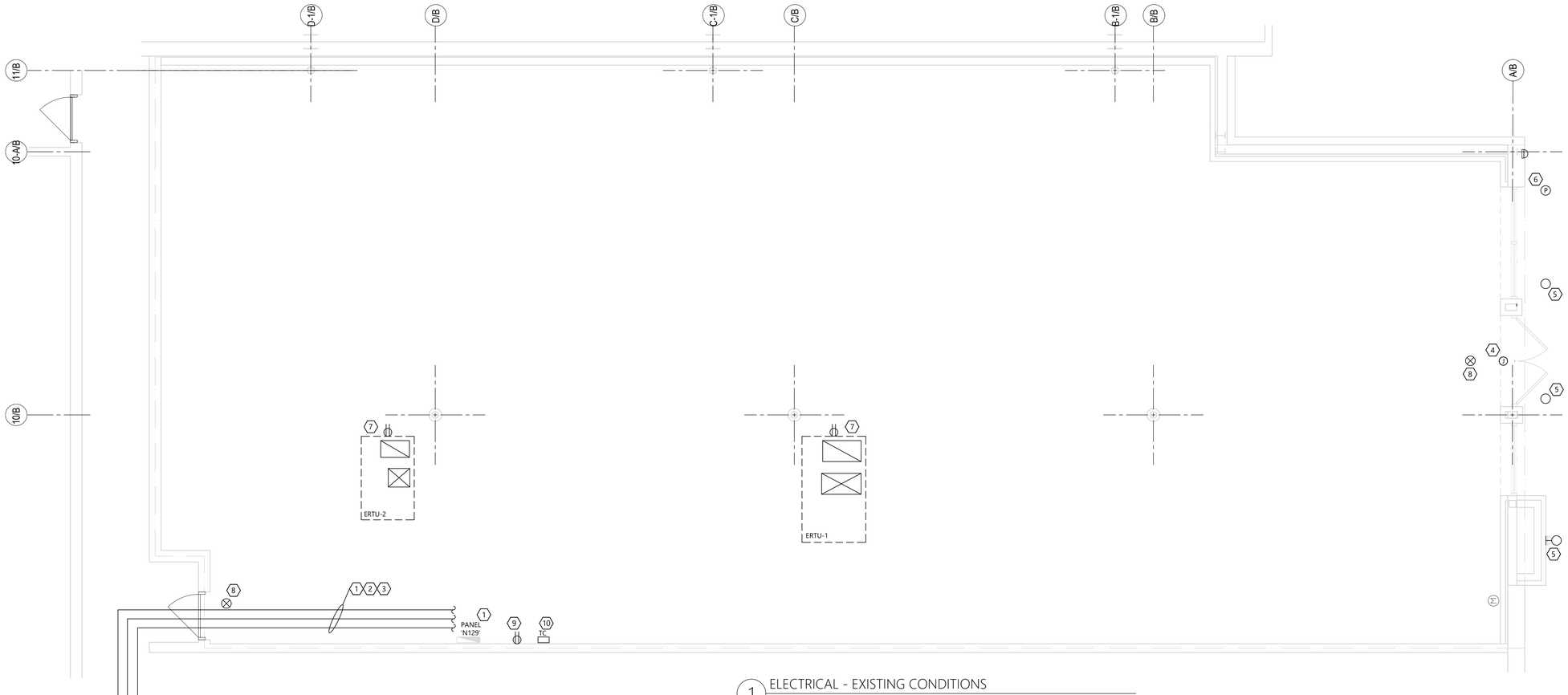
I. ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. THE E.C. SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT AND/OR CABLING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.

J. E.C. SHALL FIELD VERIFY SLAB ON GRADE FLOOR CONSTRUCTION TYPE PRIOR TO CUTTING. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CUT A STRUCTURAL FLOOR SLAB THICKER THAN FOUR (4") INCHES WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER OF RECORD. NOTIFY ENGINEER OF RECORD OF ANY SLAB THICKNESS GREATER THAN FOUR (4") INCHES PRIOR TO PROCEEDING WITH ANY SAW CUTTING.

K. COORDINATE ANY NECESSARY SYSTEMS SHUTDOWNS WITH LANDLORD PRIOR TO SHUTDOWN. INCLUDE THE COST OF THE SYSTEMS SHUTDOWNS IN THE BID.

B-LC09-E100-REV09

INFORMATION IS BASED ON SURVEY PICTURES. VERIFY ALL WORK IN FIELD. ADVISE ESSILOR LUXOTTICA PROJECT MANAGER OF ANY DISCREPANCIES.



1 ELECTRICAL - EXISTING CONDITIONS
SCALE: 1/4" = 1'-0"

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PROJECT NUMBER: 25-0381

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Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
ELECTRICAL EXISTING CONDITIONS PLAN

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: E100

A LIGHT FIXTURE SCHEDULE

TAG	DESCRIPTION	SUPPLIER	MANUFACTURER	MODEL NUMBER	FINISH/ COLOR	VOLTAGE	LAMP TYPE	LAMP QTY.	FIXTURE WATTS	NOTES
i1	ISI SPOT TRACK BLACK 15", LED, 3000K, Ra95, NON DIMMABLE POWER SUPPLY ON BOARD	VIABIZZUNO	VIABIZZUNO	ST7.001.N.3097.15.U	BLACK	120V	LED	1	18.3	1,3
i2	ISI SPOT TRACK BLACK 24", LED, 3000K, Ra95, NON DIMMABLE POWER SUPPLY ON BOARD	VIABIZZUNO	VIABIZZUNO	ST7.001.N.3097.24.U	BLACK	120V	LED	1	18.3	1,3
i3	ISI SPOT TRACK BLACK 36", LED, 3000K, Ra95, NON DIMMABLE POWER SUPPLY ON BOARD	VIABIZZUNO	VIABIZZUNO	ST7.001.N.3097.36.U	BLACK	120V	LED	1	18.3	1,3
p01	LUX 2x2 WHITE 120", LED, 3000K, DIMMABLE 0-10V POWER SUPPLY	VIABIZZUNO	VIABIZZUNO	170603.UL	WHITE	120V	LED	1	40	3
REM1	RECESSED EMERGENCY LIGHT	CAPITOL LIGHT	LIGHT ALARMS	RPBDPSQ	BLACK	120V	LED	1	7	
REM2	RECESSED EMERGENCY LIGHT	CAPITOL LIGHT	LIGHT ALARMS	SMABDSQ	BLACK	120V	LED	1	7	
T-SPK	SPOTTUNE TRACK SPEAKER	VIABIZZUNO	VIABIZZUNO	SPOT01B	BLACK	100-240V			18	
st	SPOTTUNE STREAM TRANSMITTER	VIABIZZUNO	VIABIZZUNO	SPOT1FB	BLACK	100-240V				
t01	TRACK Vb3-120V.16A. BLACK. 18'-6"	VIABIZZUNO	VIABIZZUNO		BLACK	120V				
t02	TRACK Vb3-120V.16A. BLACK. 13'9"-0"	VIABIZZUNO	VIABIZZUNO		BLACK	120V				
u01	TRACK Vb3-120V.16A. BLACK. 44'-4"	VIABIZZUNO	VIABIZZUNO		BLACK	120V				
u02	TRACK Vb3-120V.16A. BLACK. 31'-5"	VIABIZZUNO	VIABIZZUNO		BLACK	120V				
u03	TRACK Vb3-120V.16A. BLACK. 44'-4"	VIABIZZUNO	VIABIZZUNO		BLACK	120V				
u04	TRACK Vb3-120V.16A. BLACK. 31'-5"	VIABIZZUNO	VIABIZZUNO		BLACK	120V				
u05	TRACK Vb3-120V.16A. BLACK. 31'-5"	VIABIZZUNO	VIABIZZUNO		BLACK	120V				
X1RW	WHITE, SEMI-RECESSED ALUMINUM EDGE LIT, RED LETTERS, WITH BATTERY	CAPITOL LIGHT	LIGHT ALARMS	SPLEDNWRCD	WHITE	120V	LED	1	3	
X1RWL	WHITE, SEMI-RECESSED ALUMINUM EDGE LIT, RED LETTERS, LEFT CHEVRON, WITH BATTERY	CAPITOL LIGHT	LIGHT ALARMS	SPLEDNWRCD	WHITE	120V	LED	1	3	
00110-00	NR2. LIGHT WALL SCONCE	ARTEMIDE	ARTEMIDE	1039118A	WHITE	120V	LED	3	12	3,4
CONTROLS AND LIMITERS										
CLP-#A	TRACK CURRENT LIMITER PANEL. THE # INDICATED THE AMPACITY OF THE CURRENT LIMITER	GC	ACUITY/ SILVER BULLET	T24M-1077UL-#BP-4A#-ETC-SM		120V				2
COS	CEILING OCCUPANCY SENSOR	GC	SENSORSWITCH	CM-PDT-10	SEE CHART ON E220 LC10 ELEC/DATA FACEPLATE COLOR SCHEDULE					
OS	WALL OCCUPANCY SENSOR	GC	LUTRON	MS-B102	SEE CHART ON E220 LC10 ELEC/DATA FACEPLATE COLOR SCHEDULE					
D	DIMMER	GC	LUTRON	DVSTV	SEE CHART ON E220 LC10 ELEC/DATA FACEPLATE COLOR SCHEDULE					

NOTES

1. REFER TO VIABIZZUNO LIGHTING PLAN FOR LAMP DIRECTIONAL ANGLE.
2. PROVIDE CURRENT LIMITER PANEL AS INDICATED ON PLANS. LOCATE PANEL ADJACENT TO TENANT LINE VOLTAGE PANEL.
3. SCAN QR CODE ON THIS SHEET FOR LIGHT FIXTURE CUT SHEETS AND INSTALLATION INSTRUCTIONS.
4. SEE KEYNOTE #9 ON THIS SHEET.

A-LC09-E200-REV09

ENERGY CODE - COMMISSIONING

1. COMMISSIONING AGENT TO CONFIRM THE FOLLOWING IN THE BOH AREA:
   - 1.1. OCCUPANCY SENSORS DETECT MOTION AND ENERGIZE THE LOCAL SWITCHING.
   - 1.2. OCCUPANCY SENSORS DE-ENERGIZE AFTER NO MOTION IS DETECTED AFTER A 30 MINUTE DELAY.
2. COMMISSIONING AGENT TO CONFIRM THE FOLLOWING IN THE SALES AREA:
   - 2.1. SIGNS, PERIMETER SHELVING AND SALES FLOOR DISPLAY CABINETS ARE ENERGIZED AND DE-ENERGIZED WITH THE TIMER SWITCH OR CONTACTOR CONTROLLED BY TIMECLOCK.

ELECTRICAL CONTRACTOR TO HIRE THIRD PARTY COMMISSIONING CONTRACTOR. FURNISH REPORT TO ESSILOR LUXOTTICA PROJECT MANAGER PRIOR TO FINAL PAYMENT.

E012 ENERGY CODE - COMMISSIONING SMALL PROJECTS

E012-LC09-E200-REV04

QR CODE
- SPOTTUNE; INSTALLATION MANUAL, CUTSHEETS, INSTALLATION VIDEO
- LIGHTING BOOK; CUTSHEETS, MOUNTING INSTRUCTIONS, VIDEO

QRC-LC09-E200-REV07

B GENERAL NOTES

A. IT SHALL BE THE E.C.'S RESPONSIBILITY TO UNLOAD INVENTORY AND STORE LIGHTING PACKAGE. THE E.C. SHALL ALSO SHIP ANY EXCESS MATERIALS BACK TO THE ELECTRICAL PACKAGE DISTRIBUTOR AT GC'S COST.

B. EXIT LIGHTS AT THE STOREFRONT SHALL BE CEILING MOUNTED AND CENTERED OVER OPENINGS. EXIT/EMERGENCY LIGHTS AT DOOR TO NON-SALES AREAS SHALL BE CEILING MOUNTED AND CENTERED ABOVE DOOR. IF PLAN LOCATIONS ARE NOT ACCEPTABLE, IMMEDIATELY CONTACT ESSILOR LUXOTTICA PROJECT MANAGER FOR DIRECTION.

C. LIGHTING CIRCUITS UP TO 100'-0" IN LENGTH SHALL UTILIZE #12 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 101'-0" TO 150'-0" IN LENGTH SHALL UTILIZE #10 CONDUCTORS MINIMUM. LIGHTING CIRCUITS FROM 151'-0" TO 250'-0" IN LENGTH SHALL UTILIZE #8 CONDUCTORS MINIMUM. LIGHTING CIRCUITS ABOVE 251'-0" IN LENGTH SHALL UTILIZE #6 CONDUCTORS MINIMUM.

D. LIGHTING SHALL BE CIRCUITED EXACTLY AS SHOWN ON PLANS. CIRCUITING SHALL BE THRU-WIRING WHEREVER POSSIBLE. MULTIPLE CONNECTIONS TO A SINGLE LIGHT FIXTURE FOR VOLTAGE DROP CONDITIONS OR AS A RESULT OF A FIELD CONDITION ARE ACCEPTABLE.

E. EMERGENCY AND EXIT LUMINAIRES SHALL BE INSTALLED AND CIRCUITED PER LOCAL AND LATEST NATIONAL ELECTRICAL CODES. SEE QR CODE ON THIS SHEET FOR LIGHT CUT SHEET AND INSTALLATION INSTRUCTIONS.

F. E.C. SHALL MAKE ALL FINAL CONNECTIONS AS REQUIRED FOR A FULLY COMPLETE AND OPERABLE SYSTEM.

G. E.C. SHALL VERIFY THE VOLTAGE AND COMPATIBILITY OF ALL EQUIPMENT, FIXTURES AND MILLWORK PRIOR TO CONNECTION.

H. CIRCUITING SHALL BE THRU-WIRING WHEREVER POSSIBLE. MULTIPLE CONNECTIONS TO A SINGLE LIGHT FIXTURE FOR VOLTAGE DROP CONDITIONS OR AS A RESULT OF A FIELD CONDITION ARE ACCEPTABLE.

I. E.C.'S BID SHALL INCLUDE THE INSTALLATION OF ALL LUMINAIRES AND ASSOCIATED LAMPS FURNISHED BY ESSILOR LUXOTTICA. E.C. IS RESPONSIBLE TO ENSURE THE ADJUSTMENT OF ALL DIRECTIONAL FIXTURES AFTER INSTALLATION AND SHALL AIM THE FIXTURES PER PLAN (DASHED LINE SHOWN FROM TRACK HEAD FIXTURE). LIGHT FIXTURE SPECIFICATIONS MAY VARY, IF THIS IS THE CASE, CONTRACTOR SHALL CALL THE LIGHTING DISTRIBUTOR FOR EXACT SPECIFICATION OF LIGHTING FIXTURES. WHEN APPLICABLE, IF THE CEILING SYSTEMS ARE FIRE RATED, E.C. SHALL VERIFY FIXTURE RATINGS ON LIGHTING FIXTURE SCHEDULE. CONTACT ENGINEER OF RECORD WITH ANY DISCREPANCIES.

J. IN INSTANCES OF CEILINGS THAT ARE OPEN TO DECK, ALL CABLES SHALL BE RUN IN CONDUITS. CONDUITS SHALL BE ROUTED IN A NEAT AND ORDERLY FASHION.

B-LC09-E200-REV10

A KEY NOTES - ELECTRICAL PLAN ⓧ

1. CIRCUIT VIA MASTER LIGHTING SWITCH BANK. SEE DETAIL ED033 ON SHEET E011.
2. NEW LIGHTING SWITCH BANK. IF LOCATION IS UNDESIRABLE, FIELD VERIFY EXACT LOCATION WITH ESSILOR LUXOTTICA PROJECT MANAGER PRIOR TO ROUGH-IN.
3. ROUTE UNSWITCHED CONNECTION TO EXIT SIGNS OR EMERGENCY LIGHTS AND WHERE FIXTURES ARE SWITCHED, ROUTE ADDITIONAL POWER FROM THE SAME CIRCUIT AHEAD OF ALL SWITCHING FOR POWER LOSS SENSING.
4. PROVIDE OCCUPANCY SENSOR FOR AUTOMATIC SHUT OFF OF ROOM LIGHTING. SEE DETAIL ED059 ON SHEET E011.
5. CONNECT TRACK LIGHTING TO INDICATED BREAKER IN CURRENT LIMITING PANEL "CLP".
6. CURRENT LIMITING PANEL "CLP". REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.
7. 0-10V DIMMER SWITCH TO BE MOUNTED ABOVE DESK FOR FINE TUNING LOW VOLTAGE LED OVERHEAD LIGHTS. SWITCH TO BE MOUNTED 44" AFF. SEE DETAIL ED059 ON SHEET E011.
8. LOW VOLTAGE LIGHTING CONTROL POWER PACK(S) AND ASSOCIATED JUNCTION BOX(ES) MOUNTED ABOVE FINISHED CEILING. LOCATE ABOVE SUSPENDED CEILING OR AT CEILING ACCESS PANEL TO PROVIDE REQUIRED ACCESSIBILITY. PROVIDE 120V LINE VOLTAGE AND LOW VOLTAGE WIRING OF ROOM LIGHT FIXTURES / SWITCHES PER DETAIL ED059 ON SHEET E011.
9. 00110-00 WALL SCONCE FIXTURE IS SUPPLIED BY LIGHTING VENDOR WITHOUT FIXTURE BULBS. GC SHALL SUPPLY MAXLITE 100586 ENCLOSED FROSTED FILAMENT (DIMMABLE), EFF3G16.5D930/JAB, 3.5W LED E12/G16.5, 3000K, 90 CRI, FROSTED FINISH FROM lightingsupply.com. AN APPROVED ALTERNATE SPEC IS PLT-13463; 250 LUMEN, 3 WATT, 3000K, OPAL FINISH FROM 1000bulbs.com. BOTH OPTIONS HAVE A LEADTIME, PLAN ACCORDINGLY.
10. ALL LIGHTING TRACK SHALL BE PENDANT MOUNTED OR CHAIN HUNG SUCH THAT TOP OF TRACK IS 9'-10" AFF.
11. ALL LIGHT FIXTURES SHALL BE PENDANT MOUNTED OR CHAIN HUNG SUCH THAT TOP OF FIXTURE IS 9'-10" AFF.
12. EXISTING LANDLORD SUPPLIED EXTERIOR LIGHT FIXTURE TO BE CONTROLLED BY LANDLORD SUPPLIED TIMECLOCK. COORDINATE WITH LANDLORD FOR TIME SWITCHING SCHEDULE.
13. EXISTING LANDLORD SUPPLIED LIGHTING CONTROL PHOTOCELL TO REMAIN.
14. CONNECTIONS TO PENDANT MOUNTED FIXTURES SHALL BE MADE IN A NEAT AND ORDERLY FASHION. NO LOOPING OF CABLE OR WIRING SHALL OCCUR AT EITHER END OF RIGID MOUNTS, AND CONDUITS SHALL BE RUN IN A NEAT AND ORDERLY FASHION. SEE ARCHITECTURAL RCP FOR PAINT COLOR OF CEILING.
15. TRACK LIGHTS IN OD RECEPTION AREA TO BE WIRED AHEAD OF CORRIDOR OCCUPANCY SENSING. TRACK LIGHTS SHALL REMAIN ON AT ALL TIMES DURING BUSINESS HOURS AND BE CONTROLLED BY THE TIMECLOCK.

A-LC09-E200-REV10

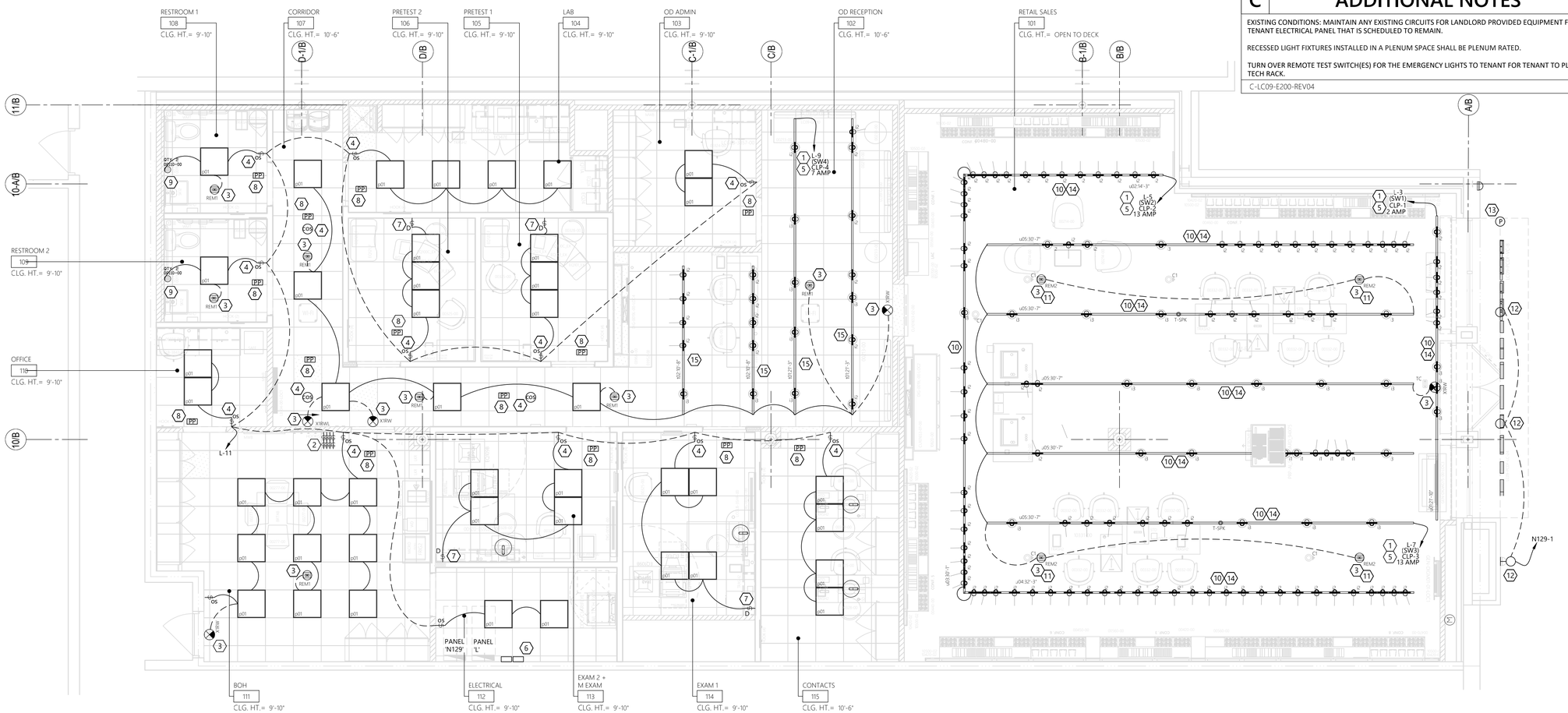
C ADDITIONAL NOTES

EXISTING CONDITIONS: MAINTAIN ANY EXISTING CIRCUITS FOR LANDLORD PROVIDED EQUIPMENT FED FROM TENANT ELECTRICAL PANEL THAT IS SCHEDULED TO REMAIN.

RECESSED LIGHT FIXTURES INSTALLED IN A PLENUM SPACE SHALL BE PLENUM RATED.

TURN OVER REMOTE TEST SWITCH(ES) FOR THE EMERGENCY LIGHTS TO TENANT FOR TENANT TO PLACE IN TECH RACK.

C-LC09-E200-REV04



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

DESIGN & CONSTRUCTION MANAGEMENT:

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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

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PROJECT NUMBER: 25-0381

Seal

Architect / Engineer Job No.: 29N2025

EssilorLuxottica DD Set Layout No.: 12

EssilorLuxottica Project Number 101653

Brand Design Type: LC10

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☐ ADDENDUM

Sheet Name:

ELECTRICAL LIGHTING PLAN

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.: E200

A LC09 ELEC. / DATA FACEPLATE, SWITCHES & PLUGS COLOR SCHEDULE

WALL FINISH	LUTRON DEVICE COLOR	WALL FINISH	LUTRON DEVICE COLOR
P-200	LIGHT ALMOND (LA)	WC-190	SAND (SD)
P-187	SIENNA (SI)	WT-190	SAND (SD)

UTILIZE LUTRON FOR ALL ELECTRICAL DEVICES. APPLIES TO SWITCHES, (DEVICES & FACEPLATES), RECEPTACLES, (DEVICES & FACEPLATES), DATA, (FACEPLATES, JACK COLORS NOT APPLICABLE) , HDMI PORTS AND OCCUPANCY SENSORS. SHOULD ANY DEVICES BE LOCATED ON WALLS WITH OTHER FINISHES RATHER THAN WHAT IS SPECIFIED ABOVE, GC SHALL PROVIDE AN RFI TO THE ESSILOR LUXOTTICA PROJECT MANAGER.

ELECTRICIAN MUST COORDINATE WITH ARCHITECTURAL FINISH PLAN SHEET.

A-LC09-E210-REV05

B KEY NOTES - ELECTRICAL PLAN

1. PROVIDE CONDUIT STUB UPS FOR POWER AND/OR DATA (WHERE APPLICABLE).
2. HOMERUN CIRCUIT THROUGH CONTACTORS; TO BE CONTROLLED BY TIMECLOCK. SEE DETAIL ED033 ON SHEET E011.
3. E.C. SHALL PROVIDE NEW TIMECLOCK AND LIGHTING CONTACTORS.
4. PROVIDE 120V CONNECTION TO HAND DRYER - VERIFY FINAL MOUNTING HEIGHT. CIRCUIT BREAKER TO BE GFI TYPE.
5. LIGHT BOX TO BE PROVIDED WITH WIRE WHIP FOR ELECTRICAL CONNECTION. PROVIDE RECESSED JUNCTION BOX IN WALL BEHIND LIGHT BOX FOR CONNECTIONS. SEE DETAIL ED050 ON SHEET E011.
6. PROVIDE WIRING FOR TENANT INSTALLED SURVEILLANCE EQUIPMENT. SEE DETAIL ED005 ON SHEET E002 FOR ADDITIONAL INFORMATION. SECURITY CAMERAS INSTALLED BY TENANT SECURITY VENDOR. SECURITY VENDOR SHALL PROVIDE POLE FOR PENDANT MOUNTING OF CAMERA AT 9'-10" AFF. PROVIDE 8" OF CABLE OUT END OF PENDANT MOUNT FOR CAMERA CONNECTION. TRIM TO BE PAINTED TO MATCH ADJACENT CEILING, DO NOT PAINT LENS SOURCE. SEE ARCHITECTURAL SHEETS FOR CEILING COLOR.
7. WIRELESS ACCESS POINT TO BE PENDANT MOUNTED SUCH THAT TOP OF DEVICE IS 9'-10" AFF. VENDOR WILL PROVIDE BLACK RIGID ROD AND CONDUIT FOR PENDANT MOUNTING, EC TO PROVIDE JUNCTION BOX AT DECK FOR CONNECTION TO PENDANT. EC SHALL HAVE A STRUCTURED CABLING CONTRACTOR PROVIDE A CAT6 DATA CABLE FROM TECH RACK TO 24" OUT OF PENDANT MOUNT FOR CONNECTION TO WIRELESS ACCESS POINT. WIRELESS ACCESS POINT VENDOR TO INSTALL OBERON 1019-RM PER MANUFACTURERS INSTALLATION REQUIREMENTS. . SEE ARCHITECTURAL PLANS FOR LOCATION.
8. RECESSED WIRELESS ACCESS POINT. EC SHALL HAVE A STRUCTURED CABLING CONTRACTOR PROVIDE A CAT6 DATA CABLE FROM TECH RACK TO 24" ABOVE CEILING FOR CONNECTION TO WIRELESS ACCESS POINT. WIRELESS ACCESS POINT VENDOR TO INSTALL OBERON 1019-RM PER MANUFACTURERS INSTALLATION REQUIREMENTS. GC WILL PROVIDE CUTOUT FOR INSTALL AND WILL PAINT THE COVER ONCE INSTALLED. SEE ARCHITECTURAL PLANS FOR LOCATION.
9. TRAFFIC COUNTER. TO BE PENDANT MOUNTED SUCH THAT TOP OF DEVICE IS 9'-10" AFF. EC SHALL PROVIDE DATA CABLE FROM TELEPHONE BOARD TO 24" OUT OF PENDANT MOUNT FOR CONNECTION TO SHOPPERTRAK SYSTEM(BY OTHERS). PROVIDE MINIMUM 6 FT COILED CABLE AT BOTH ENDS. SEE ARCHITECTURAL PLANS FOR LOCATION AND RIGID ROD.
10. PROVIDE POWER AND TELE/DATA STUB UPS BELOW CASH DESK.
11. PROVIDE TRENCHING (AS APPLICABLE) FOR POWER AND TELE/DATA. PROVIDE DEVICES AND DEVICE QUANTITIES AS SPECIFIED ON PLANS. E.C. SHALL COORDINATE INSTALLATION AND CONNECTION REQUIREMENTS WITH FURNITURE MANUFACTURER REPRESENTATIVE. SEE ARCHITECTURAL SHEET A410 FOR CONCRETE POUR-BACK DETAILS.
12. G.C. TO MATCH SHOW WINDOW RECEPTACLES WITH ADJACENT FINISHES VIA LUTRON COLOR SYSTEM. SEE SHEET A200 FOR FINISH CALL OUT AND FACEPLATE COLOR SCHEDULE ON THIS SHEET.
13. RECEPTACLE FOR ILLUMINATED SIGN BOX TO BE MOUNTED IN RECESSED MEDIA BOX TO ENSURE FLUCH MOUNT OF ILLUMINATED SIGN BOX.
14. TRACK MOUNTED SPEAKER SYSTEM, INTEGRAL WITH THE LIGHTING TRACK. SPEAKER SYSTEM IS BLUETOOTH.
15. PROVIDE NEC 517 REDUNDANT GROUNDING FOR RECEPTACLES AND SWITCHED/DIMMERS IN THIS ROOM. PROVIDE BONDING TO ALL METAL PARTS OF THE RACEWAY SYSTEM TO ENSURE THAT THE RACEWAY SYSTEM ACTS AS A GROUNDING PATH, AND PROVIDE A SEPARATE GROUNDING CONDUCTOR. BOND THE CONDUCTOR AND THE RACEWAY TO THE RECEPTACLES TO CREATE A REDUNDANT PATH TO GROUND
16. EC TO INSTALL OWNER FURNISHED AUDIO SYSTEM INCLUDING CABLE, TRANSMITTER, SPEAKERS AND VOLUME CONTROL. PROVIDE 3/4" CONDUITS FOR ALL WIRING IF REQUIRED FOR ACCESSIBILITY, LOCAL CODE OR LANDLORD REQUIREMENTS. INCLUDE ALL WORK REQUIRED FOR A COMPLETE SYSTEM IN BID. WHERE A FIRE ALARM SYSTEM IS PRESENT, PROVIDE RELAY TO DISCONNECT POWER TO MUSIC SYSTEM WHEN FIRE ALARM SYSTEM IS IN ALARM.
17. PROVIDE COMMUNICATIONS RACK AT TELEPHONE BOARD. SEE DETAIL ED003 ON SHEET E010.
18. TELEPHONE TERMINAL BOARD: 4'x8'x3/4" FIRE RATED PLYWOOD. SEE DETAIL ED002 ON SHEET E010 FOR MOUNTING.
19. DOOR STROBE/BELL SYSTEM IS COMPRISED OF (3) COMPONENTS. (1) SERVICE DOOR PUSH-BUTTON, (1) STROBE/BELL LOCATED IN SMALL OFFICE ROOM 110 AT AN ELEVATION OF 8'-0" (TO ALIGN WITH LIGHT SWITCH), AND (1) STROBE/BELL LOCATED AT RETAIL CASH WRAP ON WALL AT 12'-0" AFF. SEE DETAIL ED006 ON SHEET E010.
20. RECEPTACLE FINISH TO MATCH ADJACENT WALL FINISH AS CLOSE AS POSSIBLE. ALL RECEPTACLES AND SWITCHES ARE TO USE THE LUTRON COLOR SYSTEM. SEE DETAIL "A" ON THIS SHEET.
21. MECHANICAL CONTRACTOR SHALL PROVIDE ADDRESSABLE DUCT MOUNTED SMOKE DETECTOR. MECHANICAL CONTRACTOR SHALL INSTALL SMOKE DETECTOR IN THE SUPPLY AND RETURN AIR DUCT. ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING TO FAN INTERLOCK. E.C. SHALL MAKE FINAL CONNECTIONS TO THE REMOTE ANNUNCIATORS. E.C. SHALL COORDINATE EXACT PRODUCTS/DEVICES WITH LANDLORD AND COORDINATE WITH LANDLORD AND FIRE ALARM CONTRACTOR FOR INSTALLATION, TESTING AND PROGRAMMING. CONTRACTORS MAY RETAIN DUCT DETECTORS FOR EXISTING UNITS AS APPLICABLE. WHEN THERE IS NO FIRE ALARM SYSTEM, DETECTORS TO OPERATE IN STANDALONE FUNCTION; PANEL TO BE PROVIDED BY THE EC AND INCLUDE A DIALER.
22. LANDLORD PROVIDED RECEPTACLE AT ROOF TOP UNIT FOR MAINTENANCE TO REMAIN.
23. SEE ELECTRICAL ONE-LINE DIAGRAM - DETAIL ED044 ON SHEET E020.
24. PROVIDE JUNCTION BOX AND LOCAL DISCONNECTING MEANS TO POWER EXTERIOR BUILDING SIGNAGE. ALIGN JUNCTION BOX AND DISCONNECT ELEVATION AFF WITH EXISTING LANDLORD PROVIDED JUNCTION BOX FOR STOREFRONT SIGNAGE. JUNCTION BOX AND LOCAL DISCONNECT MUST BE LOCATED WITHIN 6' OF THE EXTERIOR SIGNAGE BROUGHT TO THE INTERIOR OF THE SPACE TO THE JBOX REACHABLE FROM THE ACCESS PANEL. COORDINATE PATH ROUTE WHILE VISITING THE SITE PRIOR TO BID AND COORDINATE WITH SIGNAGE VENDOR EXACT CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
25. PROVIDE DEVICE RING AND CLOCK STYLE OUTLET FOR MONITOR.
26. ROUTE PLENUM RATED HDMI CABLE FROM BOX TO BOX, OVER CEILING AND IN WALL. PROVIDE IN CONDUIT WHERE REQUIRED BY THE JURISDICTION. PROVIDE LUTRON CW SERIES COVER PLATE FOR HDMI PASS THROUGH.
27. PROVIDE DEVICE RING FOR HDMI CABLE.
28. TIE EXHAUST FAN INTO LOCAL LIGHTING CIRCUIT; TO BE CONTROLLED WITH LOCAL LIGHTING SWITCH.
29. UTILIZE FULL HEIGHT WALL TO ROUTE POWER AND DATA TO CASEWORK.
30. NEW FIRE ALARM DEVICE. CONNECT TO NEW FIRE ALARM PANEL. VERIFY WITH THE LANDLORD FOR ALL REQUIREMENTS FOR CONNECTION TO BASE BUILDING SYSTEM. AND REFER TO FIRE ALARM SHOP DRAWINGS.
31. ALL OUTLETS ARE TO BE LABELED WITH PANEL AND CIRCUIT NUMBER.
32. RECEPTACLE SHALL HAVE (2) INTEGRATED USB AND USB-C PORTS.
33. RECEPTACLE FOR C600 ESSILOR CHART TO BE MOUNTED IN RECESSED MEDIA BOX TO ENSURE FLUSH MOUNT OF ESSILOR CHART.
34. RETAIL AND OD BACKWRAP CABINETS, PROVIDE 2" WHIP OUT OF WALL AT SPECIFIED HEIGHT FOR CONNECTION TO BACKWRAP MONITOR AND INTEGRATED SIGNAGE. PROVIDE RECEPTACLES TO POWER MONITOR AND SIGN. RECEPTACLES SHALL BE MOUNTED INSIDE CABINET AND SHALL BE CONNECTED AT THE END OF PROVIDED WHIP. COORDINATE EXACT MOUNTING AND CONNECTION REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO ROUGH IN.
35. EXISTING LANDLORD SUPPLIED CONDUCTORS, CONDUITS, AND DISCONNECTS TO REMAIN.
36. EXISTING LANDLORD PROVIDED MAINTENANCE RECEPTACLE TO REMAIN.
37. EXISTING LANDLORD SUPPLIED JUNCTION BOX FOR CONNECTION TO STOREFRONT SIGNAGE. PROVIDE LOCAL DISCONNECTING MEANS IF NOT ALREADY PRESENT.
38. EXISTING LANDLORD SUPPLIED TIMECLOCK FOR CONTROL OF EXISTING STOREFRONT LIGHTING.

B-LC09-E210-REV10

C COORDINATION NOTES

DO NOT ROUGH IN ANY RECEPTACLES OR DATA OUTLETS ON THE SALES FLOOR WITHOUT FIRST CONFIRMING EXACT LOCATION WITH ESSILOR LUXOTTICA PROJECT MANAGER.

DO NOT PURCHASE FLOOR BOXES WITHOUT FIRST VERIFYING FINISH (FROM MANUFACTURER'S STANDARD) FOR A PARTICULAR BOX IN A PARTICULAR LOCATION.

SECURITY CAMERAS:

SECURITY CAMERAS SHALL BE PENDANT MOUNTED. LOCATION OF CAMERAS SHALL BE MARKED CLEARLY IN ORDER FOR SECURITY CAMERA TECHNICIAN TO LOCATE. ALL WIRING TO BE PROVIDED AND INSTALLED PER ELECTRICAL PLANS.

DATA / VOICE / VIDEO / MEDIA CABLING:

VERIFY FINAL CAT 6 NETWORK / TECHNOLOGY CABLING QUANTITIES TO EACH DEVICE WITH THE ESSILOR LUXOTTICA PROJECT MANAGER PRIOR TO ROUGH-IN.

FIRE ALARM

DEFERRED SUBMITTAL REQUIREMENTS:
THE FIRE ALARM PLANS PROVIDED IN THIS SHEET IS FOR DESIGN INTENT. THE GENERAL CONTRACTOR SHALL REFER TO THE FIRE ALARM SHOP DRAWINGS WITHIN THIS SET AND ENGAGE THE FIRE ALARM CONTRACTOR (WHEN REQUIRED, THE LANDLORD REQUIRED CONTRACTOR SHALL BE USED) TO COMPLETE THE INSTALLATION THAT IS COMPLIANT WITH APPLICABLE CODES. INCLUDE SUBMITTALS TO THE JURISDICTION AS REQUIRED TO SECURE PERMIT AND CERTIFICATE OF OCCUPANCY. INCLUDE ALL JURISDICTIONAL FEES AS REQUIRED FOR THIS WORK.

NOTES

CIRCUITS WERE TAKEN FROM THE LANDLORD'S PERMIT SET FOR SPACE RE-DEMISE OF THE ELECTRICAL PANEL DIRECTORY CARDS. ELECTRICAL CONTRACTOR SHALL REVISE CIRCUITS SHOWN ON THESE PLANS TO WORK WITH EXISTING CIRCUITS THAT MAY EXIST IN THE AREA AS WELL AS CIRCUITS THAT ARE TO REMAIN POWERING EXISTING EQUIPMENT.

ALL POWER/DATA OUTLETS, SWITCHES, AND COVERPLATES ARE TO USE THE LUTRON COLOR SYSTEM, FINISH TO BE CONFIRMED WITH ESSILOR LUXOTTICA PM. ADDITIONALLY, SWITCHED OUTLETS ARE TO BE LABELED WITH CLEAR LABELS, 1/4" HIGH BLACK LETTERS WITH WORD "SWITCHED"

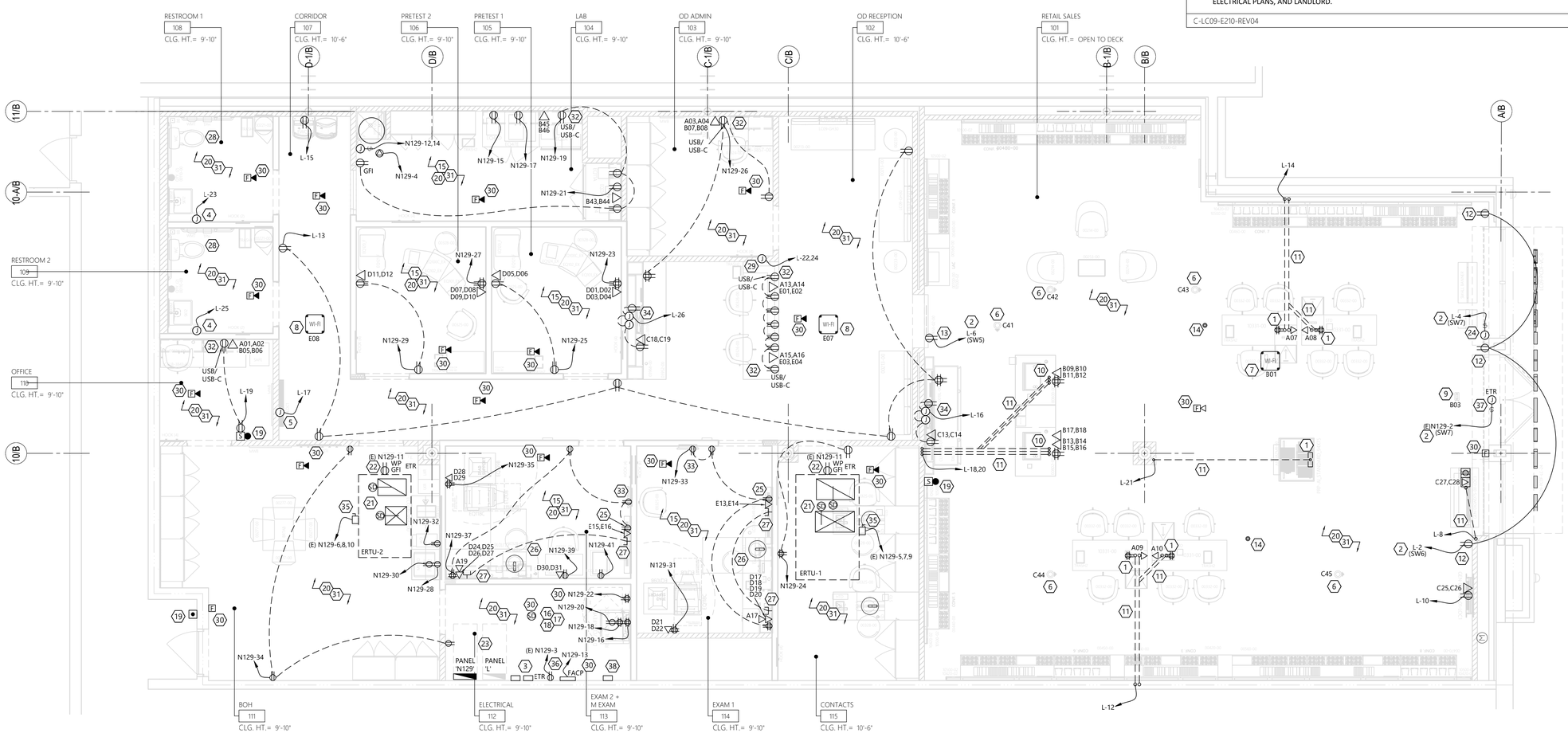
DO NOT INSTALL JUNCTION BOXES (WITH OR WITHOUT COVERS) VISIBLE TO THE PUBLIC ANYWHERE OTHER THAN OPEN TO DECK APPLICATIONS PUBLIC BACK OF HOUSE AREAS. IF THIS IS DONE, THE GC IS REQUIRED TO REMOVE THE JUNCTION BOX AT HIS/HER EXPENSE.

IN INSTANCES OF CEILINGS THAT ARE OPEN TO DECK, ALL CABLES SHALL BE RUN IN CONDUITS. CONDUITS SHALL BE ROUTED IN A NEAT AND ORDERLY FASHION.

ELECTRICAL DEVICE LOCATIONS

FOR THE EXACT DEVICE LOCATION:
- SEE SHEET E220 - ELECTRICAL DEVICE DIMENSION PLAN.
- SEE SHEET E030 AND E031 - ELECTRICAL CASEWORK DETAILS.
- COORDINATE WITH THE ARCHITECTURAL CASEWORK ELEVATION PLANS.
- IN-FLOOR POWER/DATA/TRENCHING TO BE COORDINATE WITH THE ESSILOR LUXOTTICA PM, ARCHITECTURAL PLANS, ELECTRICAL PLANS, AND LANDLORD.

C-LC09-E210-REV04



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

DESIGN & CONSTRUCTION MANAGEMENT:

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SUITE N129
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Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

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Engineer of Record

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PROJECT NUMBER: 25-0381

Seal

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
ELECTRICAL POWER/SYSTEMS PLAN

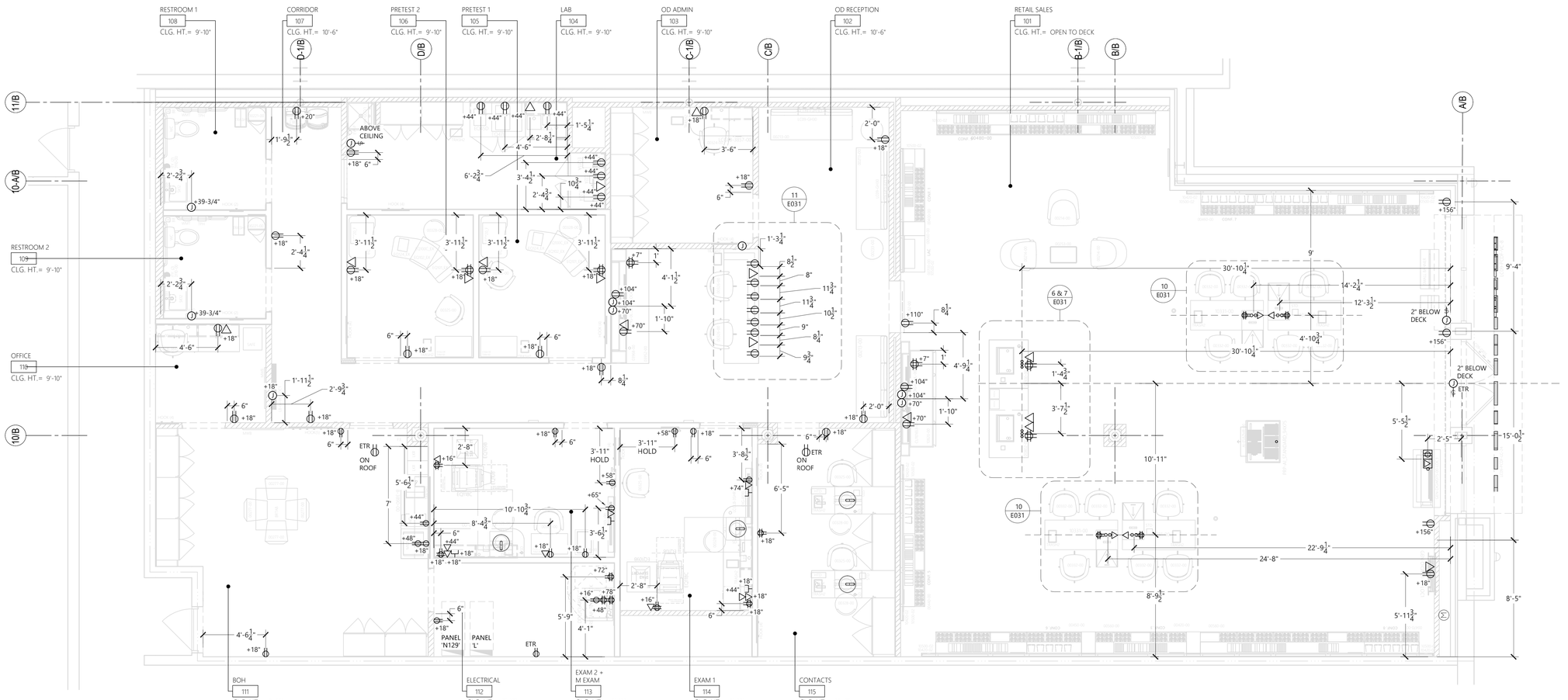
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Checked By CJD

Sheet No.: E210

A GENERAL NOTES - ELECTRICAL DIMENSION

1. FLOOR BOX AND CONDUIT STUB UP LOCATIONS TO BE VERIFIED WITH FINAL FIXTURE SHOP DRAWINGS PRIOR TO TRENCHING FLOOR.
2. VERIFY ALL MONITOR LOCATIONS WITH SHROUD SHOP DRAWINGS FOR THE EXACT HEIGHT REQUIREMENTS FOR THE ELECTRICAL DEVICES.
3. HEIGHTS LISTED ARE TO CENTER OF BOX.
4. HAND DRYERS: VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECTURAL PLANS AND MANUFACTURER RECOMMENDATIONS.
5. ELECTRICAL WATER COOLER: VERIFY FINAL MOUNTING LOCATION WITH THE PLUMBING CONTRACTOR.
6. DATA OUTLETS TO BE LOCATED ADJACENT TO RECEPTACLE.

A-LC09-E220-REV05



1 ELECTRICAL - DIMENSION PLAN

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

DESIGN & CONSTRUCTION MANAGEMENT:

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☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
ELECTRICAL DIMENSIONING PLAN

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.:
E220

A FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
⊙	CONCEALED QUICK RESPONSE HEAD SUPPLY FACTORY FINISHED CUSTOM COLOR FACE PLATES FOR THE CONCEALED HEADS. PLACE ORDER FOR FACE PLATES UPON AWARD. ITEM IS A LONG LEAD TIME. COLOR TO MATCH ADJACENT CEILING COLOR (SEE NOTE ON THIS SHEET).
ⓘ	UPRIGHT SPRINKLER HEAD
F	NEW FIRE PROTECTION PIPING
EX F	EXISTING FIRE PROTECTION PIPING
DOWN UP	PIPE RISERS
EX F F	POINT OF CONNECTION (POC)
	CAPPED PIPING

A-LC09-FP200-REV04

F KEY NOTES - FIRE PROTECTION PLAN

1. PROVIDE NEW SPRINKLERS IN SPACE. NOTE PLACEMENT OF HEADS ON THIS PLAN IS FOR UNIFORMITY, STYLE OF HEAD AND CEILING APPEARANCE. FIRE PROTECTION CONTRACTOR HAS THE LATITUDE TO ADJUST THE HEADS WHERE REQUIRED BY CODE OR CALCULATION BUT MUST BE COORDINATED WITH ARCHITECT FOR DESIGN INTENT PLACEMENT. MAINTAIN SYMMETRY IN TILES AND IN SOFFITS. WHERE INSTALLED IN ACT CEILINGS, CENTER HEADS IN CEILING TILE (SEE REFLECTED CEILING PLAN). SPRINKLER HEAD COVERS SHALL BE BENJAMIN MOORE DELAWARE PUTTY 240. COORDINATE WITH G.C.
2. EXISTING UPRIGHT SPRINKLERS IN RETAIL SALES ARE TO REMAIN. ADJUST SPACING, AS REQUIRED, FOR NEW WALL LAYOUT.

F-LC09-FP200-REV04

B FIRE PROTECTION SPECIFICATIONS

SCOPE:
OVERVIEW: THE WORK SHOWN ON THIS DRAWING IS REFLECTING THE GENERAL SCOPE OF WORK FOR THE FIRE PROTECTION CONTRACTOR. ACTUAL AND FINAL DESIGN, INCLUDING ANY SUBMITTALS AND ALL RELATED COSTS, ARE TO BE BORNE BY THE FIRE PROTECTION CONTRACTOR.

THE SCOPE OF THIS INSTALLATION IS TO MODIFY THE EXISTING SPRINKLER SYSTEM THROUGHOUT THE TENANT SPACE AND INSTALL NEW SPRINKLER HEADS FOR THIS TENANT FROM THE EXISTING DISTRIBUTION SYSTEM. DURING BIDDING, VISIT PROJECT FACILITY AND REVIEW THE DRAWINGS FOR ALL OTHER TRADES TO DETERMINE EXISTING CONDITIONS AND THE SCOPE AND EXTENT OF THE REQUIRED WORK. HEADS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR THE EXACT PLACEMENT AND CODE COMPLIANCE. COORDINATE WITH ALL OTHER TRADES.

WHERE APPLICABLE, ALL PIPING SHALL BE CONCEALED ABOVE HUNG CEILINGS AND WITHIN CHASES AND FURRED-IN PASSAGES. PIPING AND SPRINKLER HEADS SHALL BE COORDINATED WITH LIGHTS, DUCTS, ETC. NO STRUCTURAL MEMBER SHALL BE CUT OR DRILLED WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM THE ENGINEER OR OWNERS REPRESENTATIVE.

OBTAIN AND PAY FOR ALL NECESSARY PERMITS, APPROVALS, INSPECTIONS AND TESTS ASSOCIATED WITH THIS WORK. PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS AS REQUIRED FOR APPROVALS FROM STATE AND LOCAL AUTHORITIES. OBTAIN ALL APPROVALS PRIOR TO UNDERTAKING ANY WORK.

PROVIDE ALL REQUIRED SIGNS. PROVIDE ALL REQUIRED SYSTEM ACCESSORIES.

DURING BIDDING, THE CONTRACTOR SHALL MEET WITH THE LOCAL FIRE DEPARTMENT AND LANDLORD TO REVIEW ALL DRAWINGS AND TO DETERMINE THE CRITERIA AND ALL RELATED DETAILS AS REQUIRED TO MEET THE APPROVAL OF THE FIRE DEPARTMENT FOR THE DESIGN AND INSTALLATION OF THE SPRINKLER SYSTEM AND COVERAGE. CONTRACTORS FAILURE TO VERIFY REQUIREMENTS AND CRITERIA DURING BIDDING SHALL NOT RELIEVE THE CONTRACTOR OF COMPLYING WITH THE CRITERIA WITHOUT ADDITIONAL COST TO THE OWNER.

ALL FIRE PROTECTION WORK SHALL BE GOVERNED BY ALL APPLICABLE PORTIONS OF THE SPECIFICATIONS.

THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13. THE BUILDING TENANT'S INSURANCE COMPANY, THE LOCALLY ENFORCED BUILDING CODE, LOCAL BUILDING AND FIRE OFFICIALS AND ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION.

PIPE SUPPORTS: HANGERS, CLAMPS, RODS, AND OTHER ACCESSORIES OF AN APPROVED TYPE AND IN SUFFICIENT NUMBER TO PROPERLY SUPPORT ALL PIPING SHALL BE FURNISHED AND INSTALLED. PIPING SHALL BE SUPPORTED BY ROUND WROUGHT U-TYPE APPROVED ADJUSTABLE HANGERS.

ALL SPRINKLER PLANS SHALL BEAR THE STAMP OF A REGISTERED PROFESSIONAL FIRE PROTECTION ENGINEER LICENSED WITH THE STATE WHERE THE STORE IS LOCATED.

ALL SPRINKLER HEADS LOCATED IN CEILING TILE SHALL BE CENTERED IN 2X2 TILE.

BUILDING IS MERCANTILE OCCUPANCY.

ACCEPTANCE TESTING SHALL INCLUDE:
- HYDRO-TESTING OF PIPING AT 200 PSI FOR 2 HOURS.
- OPERATIONAL TEST OF FLOW SWITCH, VIA THE INSPECTORS TEST CONNECTION.
- OPERATIONAL TEST OF TAMPER SWITCHES.
- MAIN DRAIN TEST.
- OPERATIONAL TEST OF CONTROL VALVES, WHILE UNDER SYSTEM PRESSURE.

PENETRATIONS OF FIRE RATED ASSEMBLIES TO BE FIRE-CAULKED PER AN UL LISTED DETAIL, TO BE SHOWN ON THE SHOP DWGS.

DESIGN APPROACH:
INDICATE A HYDRAULICALLY CALCULATED FIRE PROTECTION SPRINKLER SYSTEM IN ACCORDANCE WITH LANDLORD'S INSURANCE UNDERWRITERS FIRE RATING INSPECTION BUREAU AND ALL CODES. SUBMIT SHOP DRAWINGS. VERIFY AVAILABLE WATER SUPPLY STATIC, RESIDUAL PSI, AND GPM OF FLOW NUMBERS WITH MALL OPERATIONS DIRECTOR PRIOR TO BID

PIPING TO BE STEEL WITH COMPATIBLE FITTINGS PER NFPA 13. USE SCH-40 FOR BRANCHLINES, AND SCH-10 FOR MAINS. OTHER DEVICES AND MATERIALS TO BE PER NFPA 13.

THE LANDLORD REQUIRES NOTICE PRIOR TO PERFORMING WORK ON THE EXISTING SPRINKLER SYSTEM. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH LANDLORD AND FOR ALL ASSOCIATED COSTS WITH DRAIN DOWNS AND REFILLING OF THE SPRINKLER SYSTEM.

GC TO HIRE LANDLORD PREFERRED CONTRACTOR FOR ALL SPRINKLER WORK. LANDLORD'S SPRINKLER CONTRACTOR MUST BE USED FOR ALL SPRINKLER & ASSOCIATED WORK. COORDINATE WITH GC. FOR INSTALLER INFO.

VERIFY ALL CONDITIONS IN FIELD PRIOR TO BIDS.

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

LAYOUT OF ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK SHALL BE CAREFULLY PLANNED AND COORDINATED WITH EACH OTHER AND ARCHITECTURAL REFLECTED CEILING PLANS TO ENSURE THAT CEILING HEIGHTS INDICATED WILL BE MAINTAINED. NOTIFY ARCHITECT IN ADVANCE IF POTENTIAL CONFLICTS MAY EXIST. MODIFICATIONS TO WORK IN PLACE DUE TO FAILURE TO PROPERLY COORDINATE LAYOUTS WITH OTHER TRADES SHALL BE AT THE CONTRACTORS EXPENSE.

SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHALL AND RECEIVE THEIR APPROVAL BEFORE ANY INSTALLATION CAN BEGIN. APPROVED DRAWINGS MUST BE AT THE JOB SITE DURING CONSTRUCTION. PROVIDE A COPY OF THE APPROVAL LETTER TO THE ARCHITECT.

SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND THE LOCAL FACTORY MUTUAL OFFICE TO RECEIVE THEIR APPROVAL BEFORE ANY INSTALLATION CAN BEGIN. APPROVED DRAWINGS MUST BE AT THE JOBSITE DURING CONSTRUCTION.

SUBMIT DATA ON THE FOLLOWING ITEMS:
- PIPING AND COUPLINGS.
- WET ALARM VALVE.
- BACKFLOW PREVENTER.
- VALVES AND SUPERVISORY DEVICES.
- SPRINKLER HEADS AND ESCUTCHEON PLATES.
- SUPPORTS, HANGERS AND ACCESSORIES.
- SEISMIC CALCULATIONS.

PLANS SUBMITTED WITHOUT ALL HYDRAULIC CALCULATIONS WILL BE RETURNED "REJECTED". PROVIDE INDEPENDENT HYDRAULIC CALCULATION SHEETS.

AT THE COMPLETION OF THE PROJECT, PROVIDE TENANT WITH OPERATION AND MAINTENANCE MANUALS INCLUDING "AS-BUILT" RECORD DRAWINGS, SPECIFICATIONS AND APPROVED PLANS.

PLUMBING, HEATING AND ELECTRICAL CONTRACTOR TO COORDINATE EQUIPMENT, DUCT, PIPING, AND CONDUIT INSTALLATIONS TO ASSURE PROPER CLEARANCES AND NEEDED ROOM TO INSTALL RESPECTIVE SYSTEMS. ALL CONTRACTORS TO COORDINATE PIPE PENETRATIONS THROUGH WALLS AND ROOF, PATCH TO MEET CODES.

ALL EQUIPMENT INSTALLATIONS, INCLUDING RELATED DUCTS, PIPING, VENTS, WIRING, CONTROLS, VALVES, ETC.,, SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC) ARTICLE 110, PARA. 110-16, SUB. a., AND ARTICLE 384, PAR. 384-4. EACH DISCIPLINE SHALL BE RESPONSIBLE FOR THE PROVISIONS SET FORTH IN THE ABOVE NEC ARTICLES.

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C GENERAL FIRE PROTECTION NOTES

1. PROVIDE FIRE STOPPING FOR ALL PENETRATIONS OF FIRE WALLS. PROVIDE THROUGH WALL FIRE STOPPING FOR ALL LOCATIONS WHERE JUNCTION BOXES IN A DEMISING WALL, OR OTHER FIRE WALL.

C-LC09-FP200-REV04

D SPRINKLER COVER PLATE CUSTOM FINISH

THIS IS A GC SUPPLIED AND INSTALLED ITEM.
TO ORDER, CONTACT QUICK RESPONSE FIRE SUPPLY (888) 361-6662. THERE WILL BE A PAINT SETUP FEE "PER ORDER". INFORMATION TO HAVE READY:
- SPRINKLER IDENTIFICATION NUMBER OR SIN #(TYPICALLY ON SPRINKLER HEAD BEGINNING WITH 1-2 LETTERS FOLLOWED BY 3-4 #S.)
- QUANTITY
- BENJAMIN MOORE PAINT #, PAINT NAME, & PAINT SHEEN.

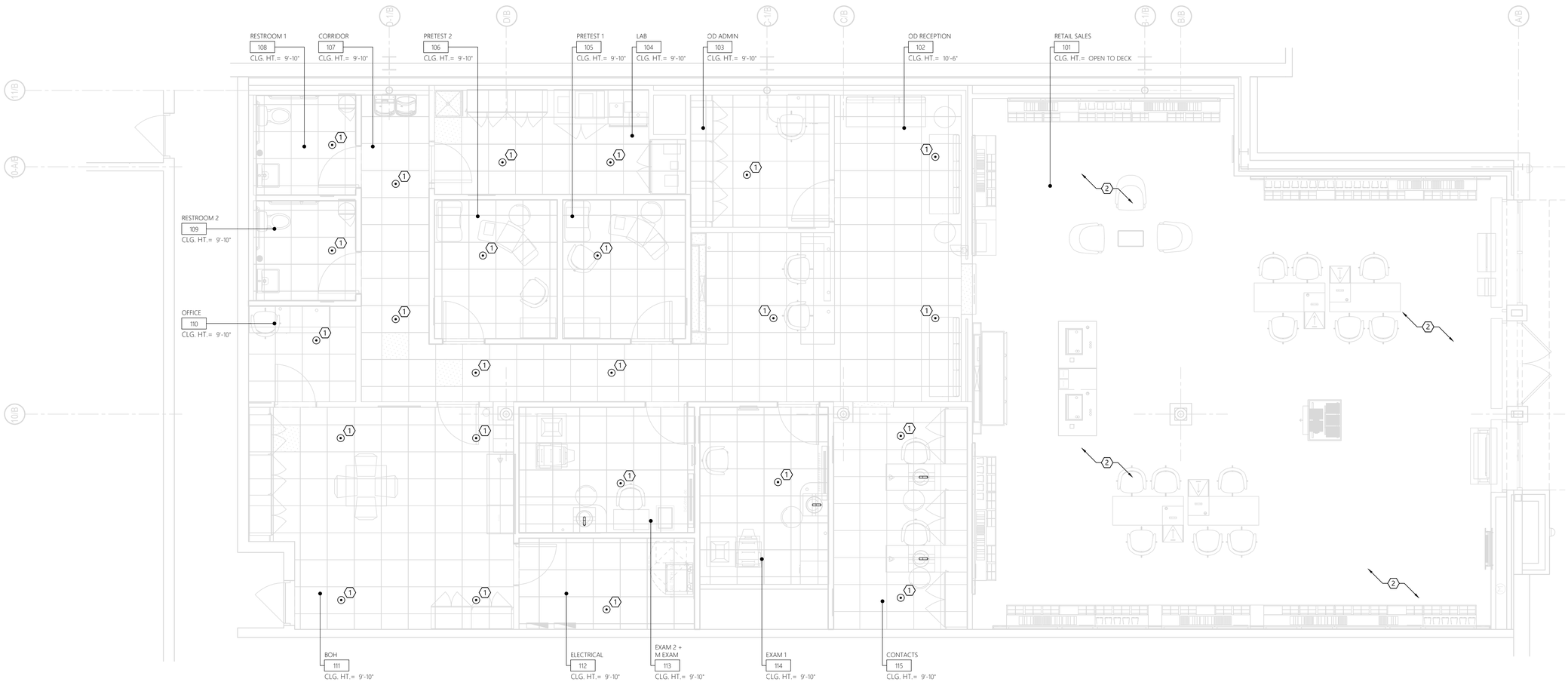
THIS IS A 6-8 WEEK LEAD TIME AND MUST BE ORDERED UPON AWARD OF THE PROJECT.

D-LC09-FP200-REV04

E DEFERRED SUBMITTAL REQUIREMENTS

A. THE FIRE PROTECTION PLANS IN THIS SET OF DRAWINGS IS FOR DESIGN INTENT.
B. THE GENERAL CONTRACTOR SHALL ENGAGE THE FIRE SPRINKLER CONTRACTOR (WHERE REQUIRED, THE LANDLORD REQUIRED CONTRACTOR) TO COMPLETE AN INSTALLATION THAT IS COMPLIANT WITH APPLICABLE CODES. INCLUDE SUBMITTALS TO THE JURISDICTION AS REQUIRED TO SECURE PERMIT AND CERTIFICATE OF OCCUPANCY. INCLUDE ALL DESIGN AND JURISDICTIONAL FEES AS REQUIRED FOR THIS WORK.
C. FIRE SPRINKLER SHOP DRAWINGS MUST BE SUBMITTED TO ESSILOR LUXOTTICA FOR APPROVAL. THE ARCHITECT AND ESSILOR LUXOTTICA PROJECT MANAGER MUST APPROVE THE SHOP DRAWINGS BEFORE ANY INSTALLATION CAN OCCUR. THE DESIGN INTENT OF THE CEILING IS FOR ALL CEILING ELEMENTS TO BE IN ALIGNMENT WITH EACH OTHER, INCLUDING FIRE ALARM DEVICES AND SPRINKLER HEADS. IF FIRE ALARM AND SPRINKLER HEADS ARE INSTALLED WITHOUT THE PROJECT MANAGER OR ARCHITECTS APPROVAL, THE GENERAL CONTRACTOR IS SUBJECT TO RELOCATING THESE ITEMS, TO ACHIEVE THE DESIRED ALIGNMENT, AT THE GENERAL CONTRACTORS COST.

E-LC09-FP200-REV05



1 FIRE PROTECTION - PLAN
SCALE: 1/4" = 1'-0"

DESIGN & CONSTRUCTION MANAGEMENT:

EssilorLuxottica
NORTH AMERICA STORE DEVELOPMENT
1 West 37th Street New York, NY 10018
+1 212.302.1200

STORE #1323
BRUNSWICK SQUARE MALL
755 NJ-18
SUITE N129
EAST BRUNSWICK NJ, 08816

Construction for:

LENSCRAFTERS
A Brand of EssilorLuxottica

Revisions:

Mark	Date	By
△		
△		
△		
△		
△		
△		
△		

Engineer of Record

WNA ENGINEERING, INC.
CONSULTING ENGINEERS
WWW.WNAENGINEERING.COM
PORTERSVILLE | PITTSBURGH | PHILADELPHIA
724.368.8133 | 412.208.1372 | 215.885.5900
PROJECT NUMBER: 25-0381

Seal

CORTLAND MORGAN
NEW JERSEY REG. AI-13402

Architect / Engineer Job No.:
29N2025

EssilorLuxottica DD Set Layout No.:
12

EssilorLuxottica Project Number 101653

Brand Design Type:
LC10

ISSUED FOR:
☐ 100% PRELIM ☒ CONSTRUCTION
☒ 100% FINAL (PERMIT, BID) ☐ BULLETIN
☐ ADDENDUM

Sheet Name:
FIRE PROTECTION PLAN
(FOR REFERENCE ONLY)

Date 05/15/2026
Drawn By WNA
Checked By CJD

Sheet No.:
FP200

BRUNSWICK SQUARE MALL
LENS CRAFTERS
755 NJ-18
EAST BRUNSWICK, NJ 08816

INSTALLATION NOTES

- DETECTORS SHALL BE LOCATED AT LEAST 3 FEET FROM DIFFUSERS OF AIR HANLDING SYSTEMS.
- CLEARLY MARK BOTH ENDS OF CABLE WITH DEVICE DESCRIPTION AND LOCATION.
- ALL FIELD WIRING MUST ENTER CONTROL PANEL OR POWER SUPPLY AT CONDUIT KNOCKOUTS PROVIDED ON BACKBOX.
- ALL CABLES SPLICES OR TERMINATION SHALL BE MADE IN LISTED FITTINGS, BOXES, ENCLOSURES, FIRE ALARM DEVICES OR UTILIZATIO EQUIPMENT PER ARTICLE 760 OF THE NEC.
- POLARITY MUST BE MAINTAINED FOR ALL CIRCUITS. IT IS PREFERRED THT THE BLACK CONDUCTOR IN FIRE ALARM CABLES BE USED AS THE NEGATIVE CONNECTION.
- LEAVE A MINIMM OF 10' OF CABLE INTO CABINET ENTRANCE.
- CABLES SHALL BE INSTALLED IN EMT, FMC AND/OR RIGID METALLIC CONDUIT .
- PLFA CIRCUITS SHALL BE SEPARATED BY AT LEAST 2" FROM CONDUCTORS OF ELECTRIC LIGHT, POWER CLASS 1, NPLFA CIRCUITS OR MEDIUM-POWER NETWORK-POWERED BROADBAND COMMUNICATION CIRCUITS UNLESS EXEPTIONS OF NEC 760 136(1)(2) APPLY.
- NO ELECTRICAL REFERENCE TO EARTH /BUILDING GROUND WILL BE PERMITTED ON ANY CONDUCTOR. SHIELD DRAIN WIRES ON ALL SHIELDED CABLE MUST BE SPLICED THROUGH AND ISOLATED FROM GROUND AT EACH DEVICE CONNECTION AND CABLE SPLICE. TERMINATE DRAIN WIRE AS DIRECTED BY FIRE ALARM INSTALLER.
- BE CERTAIN TO MAINTAIN AT LEAST 1/4" SEPERATION BETWEEN POWER LIMITED AND NON-POWER LIMITED CIRCUITS WHERE INTRODUCED SOLELY FOR SYSTEM INTERCONNECTION.
- MAINTAIN A MINIMUM SEPRATATION OF 12" BETWEEN SLC AND ALTERNATING CURRENT CIRCUITS (AUDIO, DATA, ETC.) WHERE POSSIBLE.
- DO NOT RUN ANNUNCIATOR DATA CABLE ADJACENT TO OR IN THE SAME CONDUIT AS 120 VAC, NOISY ELECTRICAL CIRCUITS THAT ARE POWERING MECHANICAL BELLS OR HORNS, AUDIO CIRCUITS ABOVE 25V RMS, MOTOR CONTROL CIRCUITS, SCR POWER CIRCUITS, OR NON-POWER LIMITED CIRCUITS.
- ALL WIRING ROUTES AND JUNCTIONS SHALL BE DOCUMENTED FOR RECORD DRAWINGS.
- CONNECTION TO THE AC POWER SERVICE SHALL BE ON THE DEDICATED BRANCH CIRCUIT SUPPLYING NO OTHER LOADS. THE CIRCUIT CONNECTION(S) SHALL BE MECHANICLLAY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONALL AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTION MEANS SHALL BE PERMANTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL UNIT.
- AUDIO/VISUAL INDICATING APPLIANCES SHALL BE INSTALLED AT THE LOWER OF 80 ABOVE FLOOR OR 6" BELOW CEILING UNLESS SPECIFIED OTHERWISE. EC TO VERIFY W/ AHJ.
- MANUAL PULL STATIONS SHALL BE INSTALLED AT 44" ABOVE FINISHED FLOOR TO THE HIGHEST OPERABLE PART OF THE DEVICE UNLESS SPECIFIED OTHERWISE. EC TO VERIFY WITH THE AHJ.
- COORDINATE DUCT DETECTOR SAMPLING TUBE LENGTHS WITH DIVISION 23 (OR OTHER) MECHANICAL CONTRACTOR.
- REFER TO SPECIFIC DEVICE INTALLATION INSTURCTIONS AS REQUIRED. CONTACT FIRE ALARM INSTALLER REGARDING ANY INSTALLATION QUESTIONS.
- FOLLOW PROPER EXPLOSION PROOF CONDUIT AND WIRING PROCEDURES PER NFPA 70 WITHIN DELUGE PROTECTED AREAS.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS MATRIX

		A	B	C	D	E	F	G	H	I	J	K	L
		INITIATE VISUAL ALARM INDICATOR	INITIATE AUDIBLE GENERAL ALARM SIGNAL	INITIATE VISUAL TROUBLE INDICATOR	INITIATE AUDIBLE TROUBLE	INITIATE VISUAL SUPERVISORY INDICATOR	INITIATE AUDIBLE SUPERVISORY SIGNAL	EVAC SIGNAL TO ALL AREAS - MARCH 3 - WITH VERBAL INSTRUCTIONS	EVAC SIGNAL TO ALL AREAS - MARCH 4 - WITH VERBAL INSTRUCTIONS	DISPLAY NEW STATUS	SEND TROUBLE SIGNAL TO SUPERVISING STATIONS	SEND SUPERVISORY SIGNAL TO SUPERVISING STATIONS	SEND FIRE ALARM SIGNAL TO SUPERVISING STATIONS	ACTIVATE RESPECTIVE FAN SHUTDOWN AOM
1	ANY FIELD DEVICE TROUBLE CONDITION			●	●					●	●			
2	SMOKE DETECTOR IN ALARM	●	●					●		●			●	
3	CARBON MONOXIDE DETECTOR	●	●						●	●			●	
4	MANUAL PULL STATION ACTIVE ALARM	●	●					●		●			●	
5	FACP AND/OR SNACP AC POWER FAILURE			●	●					●	●			
6	OPEN CKT			●	●					●	●			
7	GROUND FAULT			●	●					●	●			
8	NAC SHORT			●	●					●	●			
9	FACP AND/OR SNACP TROUBLE			●	●					●	●			
10	FACP AND/OR SNACP SUPERVISORY ACTIVE					●	●			●		●		
11	DUCT MOUNTED SMOKE DETECTOR					●	●					●		●

SYMBOL	DESCRIPTION	MANU.	PART
F	ADDRESSABLE MANUAL STATION, DOUBLE ACTION	POTTER	PAD100-PSDA
F/C	SPEAKER/STROBE - CEILING MOUNTED	SYSTEM SENSOR	SPSCWLED
	STROBE ONLY - CEILING MOUNTED	SYSTEM SENSOR	SCWLED
FACP ETR	FIRE ALARM CONTROL PANEL (FACP)	POTTER	IPA-1000
AMP	50 WATT AMPLIFIER (8 ZONE)	POTTER	SCA-5070
NAC	SUPPLEMENTAL NOTIFICATION APPLIANCE CIRCUIT PANEL (SNACP)	POTTER	PSN1000

WIRE LIST & LEGEND

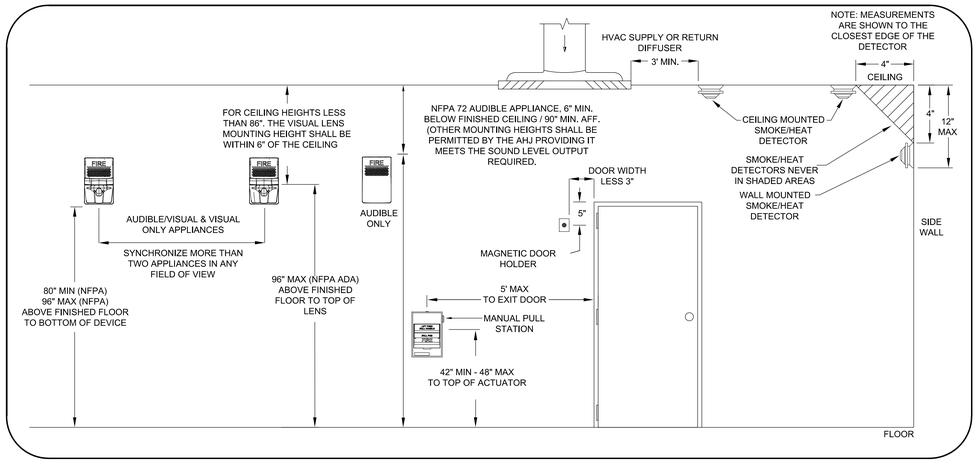
CIRCUITS		DESCRIPTION
A	SLC LOOP/ADDRESSABLE CIRCUIT	18/2 FPL
B	NOTIFICATION APPLIANCE CIRCUIT – STROBES	16/2 FPL
C	AUDIO CIRCUIT – SPEAKERS	18/2 FPL
D	MISC CONNECTIVITY, POWER, ETC.	16/2 FPL
E	P–LINK CIRCUIT (RS–485) BETWEEN FACP AND SNACP	16/4 FPL

DEVICE I.D. NOMENCLATURE

N _ _ _ _
- DENOTES DLC DEVICE NUMBER
- DENOTES DLC LOOP NUMBER
- DENOTES NAC DEVICE NUMBER
- DENOTES NAC CIRCUIT NUMBER
- DENOTES FLOOR/PAD NUMBER

ABBREVIATIONS

1P	-	ONE POLE	KVAR	-	KILOVOLT AMPERE REACTIVE
2P	-	TWO POLE	KW	-	KILOWATT
3P	-	THREE POLE	LP	-	LIGHTING PANEL
4P	-	FOUR POLE	LS	-	LIMIT SWITCH
1P, 1W	-	ONE POLE, ONE WIRE	LTG	-	LIGHTING
1P, 2W	-	ONE POLE, TWO WIRE	LV	-	LOW VOLTAGE
2P, 2W	-	TWO POLE, TWO WIRE	MC	-	MECHANICAL CONTRACTOR
2P, 3W	-	TWO POLE, THREE WIRE	MCA	-	MINIMUM CIRCUIT AMPS
3P, 2W	-	THREE POLE, TWO WIRE	MCC	-	MOTOR CONTROL CENTER
3P, 3W	-	THREE POLE, THREE WIRE	MDP	-	MAIN DISTRIBUTION PANEL
3P, 4W	-	THREE POLE, FOUR WIRE	MISC	-	MISCELLANEOUS
4P, 4W	-	FOUR POLE, FOUR WIRE	MH	-	MANHOLE
A	-	AMPERE	MLO	-	MAIN LUGS ONLY
AC	-	ALTERNATING CURRENT	MTD	-	MOUNTED
AF	-	AMPERE FRAME	MTG	-	MOUNTING
AFF	-	ABOVE FINISHED FLOOR	MTS	-	MANUAL TRANSFER SWITCH
AFG	-	ABOVE FINISHED GRADE	MW	-	MICROWAVE
AIC	-	AMPERE INTERRUPTING CAPACITY	MV	-	MEDIUM VOLTAGE
AMP	-	FIRE ALARM AUDIO AMPLIFIER	N / A	-	NOT APPLICABLE
ANSI	-	AMERICAN NATIONAL STANDARDS INSTITUTE	NC	-	NORMALLY CLOSED
AL	-	ALUMINUM	NEC	-	NATIONAL ELECTRIC CODE 2017 EDITION
AS	-	AMP SWITCH	NIC	-	NOT IN CONTRACT
AT	-	AMP TRIP	NO	-	NORMALLY OPEN
ARCH	-	ARCHITECT	#	-	NUMBER
ATS	-	AUTOMATIC TRANSFER SWITCH	NTS	-	NOT TO SCALE
A / V	-	AUDIO VISUAL	OSP	-	OUTSIDE PLANT
AWG	-	AMERICAN WIRE GRADE	P	-	POLE
B	-	PEDESTAL MOUNTED ON BENCH TOP	PB	-	PULL BOX
BF	-	BELOW FLOOR	PC	-	PLUMBING SYSTEM CONTRACTOR
BFF	-	BELOW FINISHED FLOOR	PH	-	PHASE
BFG	-	BELOW FINISHED GRADE	PNL	-	PANEL OR PANELBOARD
BLDG	-	BUILDING	PP	-	POWER PANEL
C	-	CONDUIT	PR	-	PAIR
CAM	-	CAMERA	PRI	-	PRIMARY
CAT	-	CATALOG	PROJ	-	PROJECTOR
CATV	-	CABLE TELEVISION	PVC	-	POLYVINYL CHLORIDE
CB	-	CIRCUIT BREAKER	REC	-	RECESSED
CKT	-	CIRCUIT	RE	-	RELOCATED
CLG	-	CEILING MOUNTED	REF	-	REFRIGERATOR
CO	-	COPIER	RGS	-	RIGID GALVANIZED STEEL
CT	-	CURRENT TRANSFORMER	SC	-	SECURITY CONTRACTOR
CU	-	COPPER	SEC	-	SECONDARY
CL	-	CENTERLINE	SN	-	SOLID NEUTRAL
DC	-	DIRECT CURRENT	SNACP	-	SUPPLEMENTAL NOTIFICATION APPLIANCE CIRCUIT PANEL
DR	-	DRYER			
Δ	-	DELTA	SP	-	SPARE
DISC	-	DISCONNECT	SS	-	STAINLESS STEEL
DW	-	DISHWASHER	ST	-	SHUNT TRIP
DWG	-	DRAWING	STP	-	SHIELDED TWISTED PAIR
E	-	EMERGENCY	SUSP	-	SUSPENDED
EC	-	ELECTRICAL CONTRACTOR	SW	-	SWITCH
EMT	-	ELECTRIC METALLIC TUBING	SWBD	-	SWITCHBOARD
ETR	-	EXISTING TO REMAIN	T	-	TAMPER RESISTANT SAFETY RECEPTACLE
ER	-	EQUIPMENT ROOM	TBB	-	TELECOMMUNICATIONS BONDING BACKBONE
ERL	-	EXISTING TO BE RELOCATED	TC	-	TELEPHONE CABINET
ERLD	-	RELOCATED EQUIPMENT'S NEW LOCATION	TCI	-	TELECOMMUNICATIONS CABLING INSTALLER
EWC	-	ELECTRIC WATER COOLER	TELE / DATA	-	TELEPHONE / DATA
EX	-	EXISTING	TEL	-	TELEPHONE
FA	-	FIRE ALARM	TELECOM	-	TELECOMMUNICATIONS
FACP	-	FIRE ALARM CONTROL PANEL	TGP	-	TELECOMMUNICATIONS GROUNDING BUSBAR
FLA	-	FULL LOAD AMPS	TMGB	-	
FO	-	FIBER OPTIC	TP	-	TWISTED PAIR
FPC	-	FIRE PROTECTION CONTRACTOR	TYP	-	TYPICAL
GC	-	GENERAL CONTRACTOR	UG	-	UNDERGROUND
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER	UTP	-	UNSHIELDED TWISTED PAIR
GFPE	-	GROUND FAULT PROTECTION EQUIPMENT	UOI	-	UNLESS OTHERWISE INDICATED
GND	-	GROUND	V	-	VOLT
GRC	-	GALVANIZED RIGID CONDUIT	W	-	WATT
HH	-	HANDHOLE	WA	-	WASHER
HP	-	HORSEPOWER	WAP	-	WIRELESS ACCESS POINT
HVAC	-	HEATING, VENTILATING, AND AIR CONDITIONING	WP	-	WEATHERPROOF
HZ	-	HERTZ (CYCLE) PER SECOND	XFMR	-	TRANSFORMER
ISP	-	INSIDE PLANT	XR	-	XRAY
IT	-	INFORMATION TECHNOLOGY	XV	-	XRAY VIEWER
JB	-	JUNCTION BOX	Y	-	WYE
KVA	-	KILOVOLT AMPERE	ZAM	-	ZONE ADAPTER MODULE

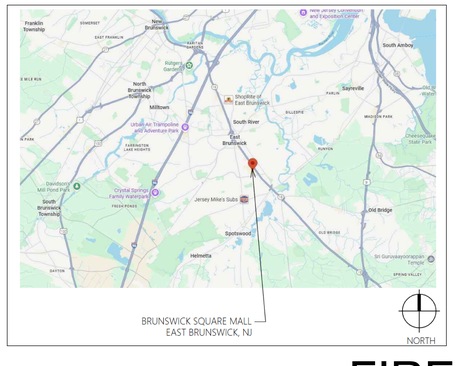


DEVICE MOUNTING STANDARDS

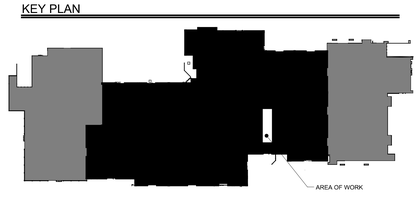
VICINITY MAP



755 NJ-18, East Brunswick, New Jersey 08816



KEY PLAN



FIRE ALARM SYSTEM

SageTEQ
THE POWER OF TECH IS YOURS

Revision/Issue | Date | No.

FIRE ALARM INSTALLER
SAGETEQ
1885 Swarthmore Ave
Lakewood, NJ 08701

Project Name and Address
BRUNSWICK SQUARE
LENS CRAFTERS
755 NJ-18
EAST BRUNSWICK, NJ 08816

drawn by: RGI NICET IV #98720

Project | Date 2026-04-29 | Scale

Sheet
FA-COV
COVER SHEET

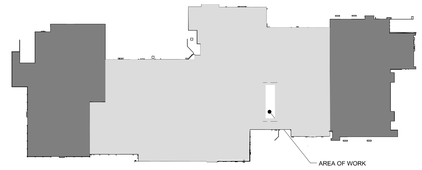
FIRE ALARM SHEET NOTES #

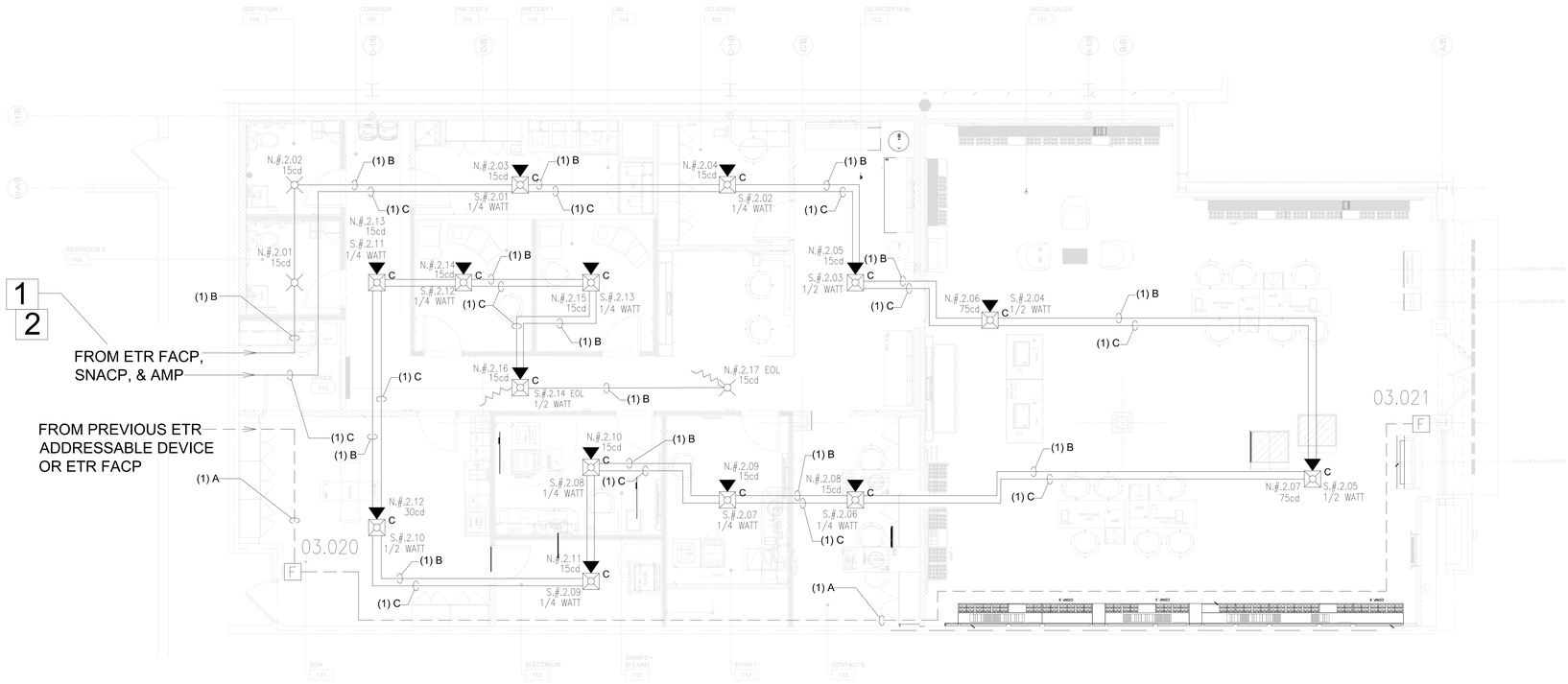
1) FACP, SNACP, AND AMPLIFIER ARE PART OF OTHER INSTALLATION PLAN, OR EXISTING-TO-REMAIN AND NOT PART OF THIS SCOPE. THEY ARE SHOWN FOR REFERENCE ONLY.

2) FIRE ALARM ANNUNCIATION IS PER ZONE AREA OF ALARM.

SYMBOL	DESCRIPTION	MANU.	PART
F	ADDRESSABLE MANUAL STATION, DOUBLE ACTION	POTTER	PAD100-PSDA
C	SPEAKER/STROBE - CEILING MOUNTED	SYSTEM SENSOR	SPSCWLED
	STROBE ONLY - CEILING MOUNTED	SYSTEM SENSOR	SCWLED
FACP ETR	FIRE ALARM CONTROL PANEL (FACP)	POTTER	IPA-1000
AMP	50 WATT AMPLIFIER (8 ZONE)	POTTER	SCA-5070
NAC	SUPPLEMENTAL NOTIFICATION APPLIANCE CIRCUIT PANEL (SNACP)	POTTER	PSN1000

KEY PLAN





LEVEL 1

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

0" 4' 8' 32' 2' 6' 16' 48'

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Drawn BY: RGL NICET IV #98720

Date: 2026-04-29

Scale: 1/16"

Sheet: FA-101
LEVEL 1 PLAN

DRAWING NOTES # :

1. THE RISER DIAGRAM IS INTENDED TO SHOW GENERAL INSTALLATION GUIDELINES FOR FACP AND REPRESENTATIVE FIELD DEVICES. ALL PANELS AND FIELD DEVICES ARE NOT SHOWN - THIS IS A REPRESENTATIVE PORTION OF THE SYSTEM. REFER TO FLOOR PLANS FOR LOCATIONS OF ALL EQUIPMENT.

2. SIGNALING LINE CIRCUITS SHALL BE ARRANGED AS CLASS B FOR CONNECTION OF ALL SENSORS AND ADDRESSABLE DEVICES. EACH SIGNALING LINE CIRCUIT SHALL BE PROVIDED WITH A MINIMUM 25 PERCENT SPARE CAPACITY.

3. T-TAPPING OF SIGNALING LINE CIRCUITS SHALL BE PERMITTED PROVIDED THE T-TAP IS MADE IN AN ACCESSIBLE JUNCTION BOX WITH TERMINAL BLOCKS. LOCATIONS OF ALL SUCH CONNECTIONS SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS. A MAXIMUM OF TWO (2) DEVICES MAY BE CONNECTED TO A SINGLE T-TAP ON A FLOOR SLC.

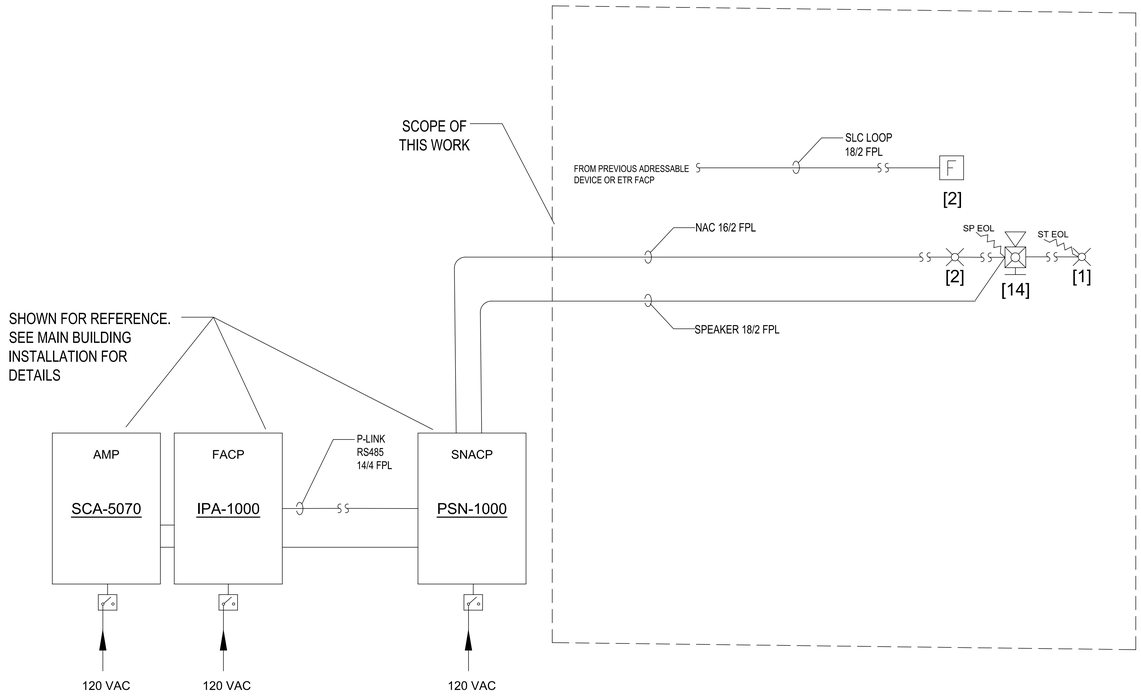
4. NOTIFICATION APPLIANCE CIRCUITS SHALL BE ARRANGED AS CLASS B FOR CONNECTION OF ALL HORN AND STROBE LIGHTS. EACH NOTIFICATION APPLIANCE CIRCUIT SHALL BE PROVIDED WITH A MINIMUM 25 PERCENT SPARE CAPACITY. NOTIFICATION APPLIANCE CIRCUITS SHALL BE ARRANGED TO COINCIDE WITH SMOKE COMPARTMENTS. LOCATIONS OF END-OF-LINE DEVICES SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

5. ADDRESSABLE INPUT MODULES AND ADDRESSABLE OUTPUT MODULES SHALL BE USED TO CONNECT NON-ADDRESSABLE INITIATING DEVICES TO THE SIGNALING LINE CIRCUIT AND TO PERFORM AUXILIARY CONTROL FUNCTIONS VIA THE FIRE ALARM SYSTEM.

6. HORN/STROBE POWER EXTENDER PANELS SHALL BE LOCATED WHERE INDICATED. ALL LOCATIONS SHALL BE APPROVED BY THE ENGINEER. REFER TO FIRE ALARM PLANS FOR COMMUNICATION ZONE BOUNDARIES.

7. ALL INSTALLED CIRCUITS SHALL BE IN EMT OR RIGID CONDUIT, DEPENDING ON LOCATION.

8. PROVIDE A LOCKABLE DISCONNECT AT EACH INSTALLED PANEL LOCATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.



RISER DIAGRAM

FIRE ALARM SYSTEM

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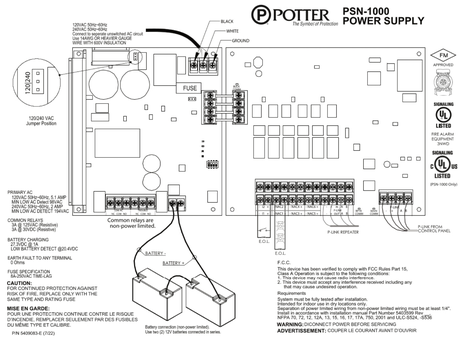
drawn by: RGL NICET IV #98720

Project
Date 2026-04-29
Scale

Sheet
FA-R01
RISER DIAGRAM

PSN-1000 POWER EXPANDER-5403599-REV E-07/22

1. Installation Wiring Document

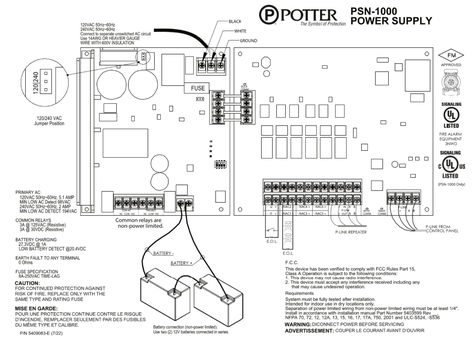


Type of Circuit	Voltage Type	Power Type
AC Connection	High Voltage	Non-Power Limited
Battery Connection	Low Voltage	Non-Power Limited
Trouble Relay	High Voltage	Non-Power Limited
Low AC Relay	High Voltage	Non-Power Limited
Notification Device Circuits (NACs)	Low Voltage	Power Limited
Input Circuits	Low Voltage	Power Limited
Plink RS-485 Connections	Low Voltage	Power Limited

SUPPLEMENTAL NOTIFICATION APPLICANCE CIRCUIT PANEL TERMINALS

PSN-1000 POWER EXPANDER-5403599-REV E-07/22

1. Installation Wiring Document



Type of Circuit	Voltage Type	Power Type
AC Connection	High Voltage	Non-Power Limited
Battery Connection	Low Voltage	Non-Power Limited
Trouble Relay	High Voltage	Non-Power Limited
Low AC Relay	High Voltage	Non-Power Limited
Notification Device Circuits (NACs)	Low Voltage	Power Limited
Input Circuits	Low Voltage	Power Limited
Plink RS-485 Connections	Low Voltage	Power Limited

FACP & SNACP CONNECTION

POTTER
The Symbol of Protection

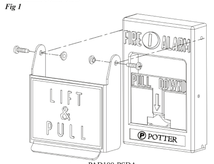
PAD100-PSSA/PSDA

Addressable Pull Station
Single/Dual Action

Setting the Address

The PAD100-PS Series uses one SLC address assigned to the device. The address is set using the DIP switch located on the back of the PAD100-PS device.

Pull Station Front View
Fig 1

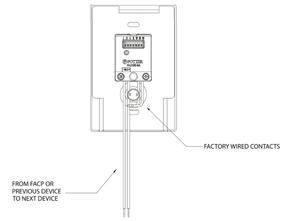


PAD100-PSDA



PAD100-PSSA

Pull Station Back View and Wiring
Fig 2

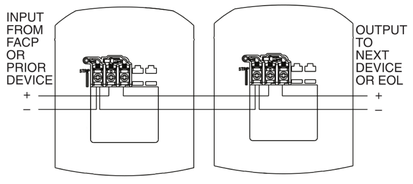


Ordering Information

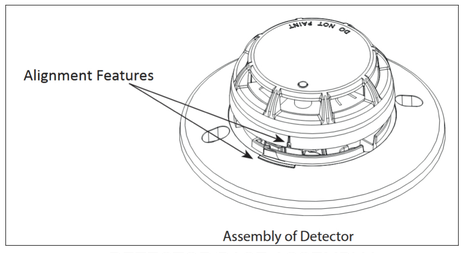
Model	Description	Stock No.
PAD100-PSSA	Addressable Pull Station, Single Action	3992721
PAD100-PSDA	Addressable Pull Station, Dual Action	3992720

MANUAL PULL STATION WIRING

FIGURE 4. WIRING 2-WIRE PRODUCTS



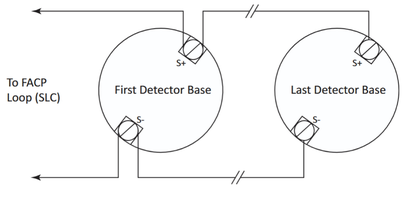
NOTIFICATION APPLIANCE WIRING



DETECTOR/BASE ASSEMBLY

Field Wiring Diagram

Typical field wiring diagrams for the Signaling Line Circuit (SLC) (FIGURE 1). The SLC supports NFPA wiring Class B, A and X.



DETECTOR/BASE WIRING

P-Link

The SCA and DCA amplifiers operate in conjunction as an expansion device with the IPA-4000V via P-Link.

All expansion devices are supervised via the RS-485 connection. Wiring is fully supervised, and power limited. Any connection to ground of 0 ohms will be annunciated as a ground fault.

P-Link Voltage = 24 VDC

Maximum wire length = 6,500 feet.

Maximum wire resistance = Maximum wiring resistance is based on load.

Calculate using the following equation

(Total P-Link Alarm Current) x (Wire Resistance) < 6 volts.

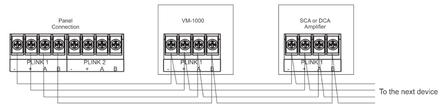


Figure 6. P-Link Class B Wiring Example

AMPLIFIER P-LINK WIRING

V-Link

The V-Link is a supervised proprietary bus that transmits audio to designated channels on SCA and DCA amplifiers. Wiring is fully supervised, and power limited. Any connection to ground of 0 ohms will be annunciated as a ground fault.

Maximum wire length = 6500 feet

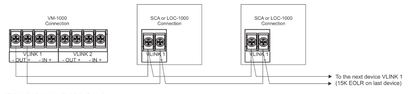


Figure 8. VM-1000 VLINK1 Class B

AMPLIFIER V-LINK WIRING

SCA DCA INSTALLATION MANUAL-5409206-REV A 4/21

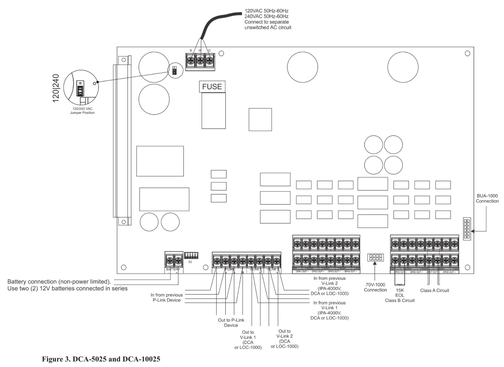


Figure 3. DCA-5025 and DCA-10025

Type of Circuit	Voltage Type	Power Type
AC Connection	High Voltage	Non-Power Limited
Battery Connection	Low Voltage	Non-Power Limited
P-Link	Low Voltage	Power Limited
V-Link	Low Voltage	Power Limited
Speaker Circuits	Low Voltage	Power Limited

AMPLIFIER TYPICAL WIRING

NOTE: TYPICAL WIRING DIAGRAMS SHOWN HERE FOR REFERENCE. REFER TO MANUFACTURER'S FULL INSTALLATION MANUAL(S) FOR RESPECTIVE COMPONENTS FOR FULL DETAILS.

FIRE ALARM SYSTEM

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drawn BY: RGL NICET IV #98720

Project
Date 2026-04-29
Scale

Sheet
FA-S01
DETAILS/
TYPICALS

BARNES & NOBLE 4/23/2026

FIRE ALARM BATTERY CALCULATIONS SUPPLEMENTAL NOTIFICATION APPLIANCE CIRCUIT PANEL (S.N.A.C.P.)			POWER SOURCE #			
MODEL	QTY	DESCRIPTION	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PSN1000	1	POTTER SUPPLEMENTAL NOTIFICATION APPLIANCE CIRCUIT PANEL – STROBES	0.06	0.06	0.2	0.2
				0		0
				0		0
				PANEL TOTALS	**0.06**	**0.2**
PERIPHERAL DEVICES						
MODEL	QTY	DESCRIPTION		CANDELA	ALARM CURRENT	TOTAL ALARM
SPSCWLED	6	SPEAKER/STROBE CEILING MOUNTED **(BARNES & NOBLE SUITE)**		115	0.12	0.72
		(NOT THIS SCOPE, SHOWN FOR REFERENCE)				
				CIRCUIT 0.1		**0.72**
SPSCWLED	10	SPEAKER/STROBE CEILING MOUNTED **(LENS CRAFTERS – THIS SCOPE)**		15	0.035	0.082
SPSCWLED	1	SPEAKER/STROBE CEILING MOUNTED **(LENS CRAFTERS – THIS SCOPE)**		30	0.038	0.756
SPSCWLED	2	SPEAKER/STROBE CEILING MOUNTED **(LENS CRAFTERS – THIS SCOPE)**		75	0.087	0.111
SCWLED	2	STROBE ONLY CEILING MOUNTED **(LENS CRAFTERS – THIS SCOPE)**		15	0.035	0.082
				CIRCUIT 0.2		**1.031**
SPARE		SPARE				
				CIRCUIT 0.3		**0**
SPARE		SPARE				
				CIRCUIT 0.4		**0**
					DEVICE TOTALS--->	**1.751**
				TOTAL STANDBY--->	**0.06** TOTAL ALARM--->	**1.951**

MINIMUM QUANTITY OF BACK-UP BATTERIES CALCULATION

STANDBY TIME =	24 HOURS X	0.06	=1.44	STANDBY AH
ALARM TIME(5 MIN) =	0.08333 MIN X	1.951	=0.16257683	ALARM AH
		SUB-TOTAL--->	1.60	
	ADDITIONAL SPARE CAPACITY =	20% ---------->	+0.320515366	
		SUB-TOTAL--->	=1.923092196	
	BATTERY DISCHARGE FACTOR=	20%---------->	0.38	
		TOTAL AMP HOURS--->	2.31	
MINIMUM BATTERY (2 BATTERIES) @	8	AMP HOURS EACH		

BATTERY CALCULATIONS - STROBE AUX. PS.

NAC Voltage Drop Calculator
for Audio / Visual devices
This calculator provided voltage drop calculations in three formats (Point to Point, End of Line, and Load Centering).

		Point to Point Method			End of Line Method			Load Centering Method		
Project Name	LENS CRAFTERS	CIRCUIT IS WITHIN LIMITS			CIRCUIT IS WITHIN LIMITS			CIRCUIT IS WITHIN LIMITS		
Date	4/30/2026									
Circuit Number	#.2	Totals		Voltage	Totals		Voltage	Totals		Voltage
Area Covered	LEVEL 1	Current	Distance	Drop	Current	Distance	Drop	Current	Distance	Drop
Nominal System Voltage	24	0.668	254.3333	**0.95**	0.668	254.3333	**1.662**	0.668	254.3333	**0.831**
Minimum Device Voltage	16	End of Line Voltage		**23.05**	End of Line Voltage		**22.34**	End of Line Voltage		**23.17**
Total Circuit Current	0.668	Percent Drop		3.97%	Percent Drop		6.92%	Percent Drop		3.46%

		Wire Gauge	Ohm's Per 1000
Distance from source to 1st devic	13.58	16	4.89
Wire Gauge for balance of circuit		16	4.89

End of Line and Load Centering Methods use only the wire guage for the first device to source
Standard Wire Resistance in Ohms per 1000 feet.
18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
18-14 Awg = Solid Conductors 12-10 Awg = Stranded Conductors

Enter current in amps. .150 = 150 ma		Distance from previous device	Voltage At Device	Voltage Drop from source	Percent Drop
Device Number	Device Current				
Device 1	0.018	13.58	23.91	0.089	0.37%
Device 2	0.018	7.00	23.87	0.133	0.56%
Device 3	0.035	16.58	23.76	0.236	0.98%
Device 4	0.035	14.75	23.68	0.322	1.34%
Device 5	0.035	15.33	23.59	0.406	1.69%
Device 6	0.035	12.08	23.53	0.468	1.95%
Device 7	0.087	35.17	23.36	0.638	2.66%
Device 8	0.087	35.83	23.22	0.780	3.25%
Device 9	0.035	8.67	23.19	0.807	3.36%
Device 10	0.035	11.83	23.16	0.839	3.50%
Device 11	0.035	6.58	23.14	0.855	3.56%
Device 12	0.038	19.50	23.10	0.896	3.73%
Device 13	0.035	16.83	23.08	0.925	3.85%
Device 14	0.035	5.42	23.07	0.932	3.88%
Device 15	0.035	8.58	23.06	0.941	3.92%
Device 16	0.035	11.42	23.05	0.949	3.95%
Device 17	0.035	15.17	23.05	0.954	3.97%
Device 18		0.00	23.05	0.954	3.97%
Device 19		0.00	23.05	0.954	3.97%
Device 20		0.00	23.05	0.954	3.97%
Totals	0.668	254.33333	End of Line Voltage		**23.05**

Notes:
Wire resistance is doubled in the calculations for two wires (Positive and Negative)
The voltage calculated to the last device in any method must not be lower then
the manufactures listed minimum operating voltage (IE: rated operating voltage 20-32 VDC).

Device Manufacturer SYSTEM SENSOR

Model #	Candela	Current @Rated Voltage
H/S CEILING		
PC2WLED	15	0.035
PC2WLED	30	0.038
PC2WLED	75	0.087
PC2WLED	115	0.120

Device Manufacturer SYSTEM SENSOR

Model #	Candela	Current @Rated Voltage

VOLTAGE DROP CALCULATIONS - STROBE CIRCUIT

Description	Quantity	Standby (mA)	Total Standby (mA)	Alarm (mA)	Total Alarm (mA)
SCA-5070	1	58	58	608	608
		Total (mA)		Total (ma)	
		Convert to Amps	x 0.001	Convert to Amps	x 0.001
(*Refer to maximum allowable standby current) Total A:			.058	Total A:	.608
Multiply by standby hours			x 24	60 minutes per hour Alarm time (minutes) ***Example:*** 5 minute alarm: enter 12 10 minute alarm: enter 6	÷ 6
Total Standby AH			1.392	Total Alarm AH	.1013
				+Total Standby AH	1.392
				Total AH	1.4933
				Efficiency Factor	÷ 0.80
				Required AH	1.866

BATTERY CALCULATIONS - SPEAKER AMPLIFIER
(AMPLIFER IS BEING INSTALLED AS PART A DIFFERENT SCOPE, SHOWN FOR REFERENCE)

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Sheet: FA-T01
CALCULATIONS