LANDLORD NOTE/S: - COMPLETE STORE DESIGN IS SUBJECT TO LANDLORD'S REVIEW &

- APPROVAL.
 STOREFRONT DESIGN IS INTENDED TO BE FULLY 3—DIMENSIONAL
 WITH ADULATION IN HEIGHT. TENANT IS URGED TO UTILIZE VARIETY
 OF PLANES TO AVOID THE FLAT STOREFRONT WHICH SPEAKS IN THE
 ABSENCE OF DESIGN. THE OVERALL SHAPE OF THE STOREFRONT
 SHOULD NOT EMPHASIZE THE PROJECTED EASELINE. IT SHOULD
 FOSTER A STATEMENT OF INTERESTING AND ARTICULATED GEOMETRY
 THAT IS ARCHITECTURALLY INTERESTING AND HAS A HIGH VISUAL
- ENSURE TENANT'S GC TO SITE VERIFY ALL EXISTING CONDITIONS
 PRIOR TO FINALIZED DRAWINGS AND CONSTRUCTION.
 INDICATE LEASE LINE LOCATION ON ALL DRAWINGS FOR REFERENCE
 AND ENSURE TO USE THE LATEST TENANT OUTLINE DRAWINGS
- ENSURE TO SUBMIT A COMPLETE PACKAGE INCLUDING FLOOR PLAN, RCP, FLOOR FINISHES, INTERIOR ELEVATIONS, CROSS SECTIONS, DETAILED DRAWINGS AND ETC.
- ALL STOREFRONT BULKHEADS SHALL BE DETAILED AS TO NOT DISTURB, OR OTHERWISE MODIFY ANY EXISTING BASE BUILDING LANDLORDS COMPONENTS EG. BULKHEADS, BUILDING ENVELOPE, IF ANY BASE BUILDING STRUCTURE IS TO BE RELIED UPON FOR BRACING PURPOSES THEN A) TENANT'S CONSULTANTS SHALL BE RESPONSIBLE TO DESIGN AND DETAIL SUCH CONNECTION(S) AS NOT TO ADVERSELY ALTER THE PERFORMANCE AND/OR INTEGRITY OF THE CORRESPONDING BASE BUILDING COMPONENTS & BUILDING ENVELOPE, AND B) SAID DETAILS SHALL BE REVIEWED BY THE BASE BUILDING CONSULTANTS & APPROVED BY OWNERS.

ARCVISION INTERNAL USE

- ☑ OWNER PRELIM COMMENTS ADDRESSED ☑ OWNER REVIEW COMMENTS ADDRESSED □ ASBESTOS SURVEY REQSTD. (AS NEEDED)
- ☐ OWNER AUTH. FORM REQSTD. (AS NEEDED)
 ☐ LANDLORD COMMENTS ADDRESSED
 ☐ BUILDING DEPT. COMMENTS ADDRESSED
 ☐ OWNER PERMIT COMMENTS ADDRESSED
- CLS

JRS

REVISION NUMBER

ELEVATION

MIDTOWN PLAZA

201 1ST AVENUE SOUTH.

SPACE NO. 240B

SASKATOON, SK S7K 1J9

LANDLORD NOTE/S (CON'T):

- TENANT IS RESPONSIBLE TO REMOVE EXISTING DEMISING CAP, PATCH AND MAKE GOOD AS OUTLINE WITH IN THE TENANT DESIGN CRITERIA. TENANT FINISHES ARE TO DIE INTO NEIGHBORING TENANT'S FINISH ALONG THE CENTRELINE OF THE DEMISING WALL. SITE CONDITION TO BE SITE VERIFIED AND COORDINATED ON SITE (TYP) REFERS TO TENANT DESIGN CRITERIA. PROVIDE DETAIL FOR BOTH DEMISING CONDITIONS.
- ENSURE ALL TENANT'S FIXTURES TO BE DETAILED AS TO NOT DISTURB, OR OTHERWISE MODIFY ANY EXISTING BASE BUILDING

PROPOSED HARDWARE, CLEAR PATH OF TRAVEL AND ETC.

- LANDLORD'S COMPONENTS.

 TENANT TO DESIGN THE OVERALL STORE COMPLIANT TO THE MOST CURRENT BUILDING CODE AND ACCESSIBILITY STANDARDS INCLUDING
- ALL CUTTING OR CORE DRILLING AS REQUIRED MUST BE PERFORMED BY THE TENANT'S GC AND APPROVED BY THE LANDLORD AT TENANT'S GC COST. TENANT CONTRACTOR TO VERIFY LOCATIONS. ALL CUTTING AND CORING TO BE PERFORMED AT NIGHT AND ACCESS TO TENANT SPACE BELOW (IF REQUIRED) MUST BE COORDINATED WITH THE LANDLORD PRIOR TO THE COMMENCEMENT OF ANY WORK. TENANT'S GC IS RESPONSIBLE FOR BRINGING ALL FINISHES IN THE OTHER TENANT SPACE BACK TO EXISTING CONDITIONS AFTER WORK IS COMPLETE. REFER TO LANDLORD'S TENANT CONTRACTORS RULES AND REGULATIONS FOR IST OF ALL LANDLORD APPROVED BASE BUILDING CONTRACTORS.

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HOARDII

- TENANT IS TO PROVIDE 1 SET OF PROPOSED HOARDING GRAPHIC DRAWINGS TO THE LANDLORD FOR REVIEW AND APPROVAL PRIOR TO
- FABRICATION AS SET OUT IN TENANT DESIGN CRITERIA.

 ALL VINYL GRAPHICS MUST BE PROPERLY APPLIED ON TO THE HOARDING. SPRAY GLUE OR MECHANICAL FASTENERS ARE NOT DEPARTED.
- POSTERS AND BANNERS ARE NOT PERMITTED.
 CENERAL ADVERTISING IS NOT ALLOWED WITHOUT.
- GENERAL ADVERTISING IS NOT ALLOWED WITHOUT PRIOR WRITTEN CONSENT FROM THE LANDLORD CONTRACTOR.
 IDENTIFICATION SIGNAGE IS NOT PERMITTED.

ISSUED FOR

CONSTRUCTION

ABBREVIATIONS PROJECT DATA ABOVE FINISHED FLOOR PROJECT NAME: HOT TOPIC # 2540 ABOVE FINISHED CEILING MFR. MANUFACTURE (R) ACOUSTICAL TILE MECH. MECHANIC (AL) MTL. PROJECT LOCATION: MIDTOWN PLAZA ADJACENT METAL **ALTERNATE** MEZZANINE 201 1ST AVE. S. SASKATOON, SK S7K 1J9 MINIMUM, MINUTE **APPROXIMATE** ARCHITECT (URAL) MISCELLANEOUS NOT IN CONTRACT N.I.C. BLOCK 18305 E. SAN JOSE AVENUE N.T.S. NOT TO SCALE BLKG. BLOCKING CITY OF INDUSTRY, CALIFORNIA 91748 NUMBER BOARD PHONE # (310) 938-5552 CEILING OWNER FURNISHED CONTRACTOR CEILING HEIGHT CONTACT: WESTON MARTIN (PROJECT MANAGER) INSTALLED CLR. CLEAR (ANCE) EMAIL: wmartin@hottopic.com OWNER FURNISHED OWNER CLO. CLOSET INSTALLED COL. COLUMN ON CENTER (S) 1200A THE TOWER AT MIDTOWN, 201 ST. AVE. S. CONCRETE MASONRY UNIT OPPOSITE PLASTIC LAMINATE SASKATOON, SK S7K 1J5 CONSTRUCTION PHONE #: (306) 665-4842 PLBG. PLUMBING COORDINATE COORD. CONTACT: JENNIFER THOMS (OPERATIONS ASSISTANT) PLYWOOD CORR. CORRIDOR EMAIL: jenn.thoms@cushwake.com POLYVINYL CHLORIDE CENTER PROJECT MANAGER ARCVISION INC. CERAMIC TILE 6. TENANT'S ARCHITECT: DET. RETURN AIR DETAIL 1950 CRAIG RD. - SUITE 300 REFLECTED CEILING PLAN ST. LOUIS, MO 63146 DIAGONAL PHONE # (800) 489-2233 REFERENCE DIA. DIAMETER CONTACT: AUTUMN BRIGHTWELL REGISTER DIF. REG. DIFFUSER REINF. REINFORCE (D), (ING) **DIMENSION** SASKATCHEWAN BUILDING DEPT. . BUILDING DEPARTMENT: REQ'D. (REQ.) REQUIRED DISP. DISPENSER 1430-1855 VICTORIA AVE. REVISION (S), REVISED DOOR REGINA, SK S4P 3T2 ROUGH OPENING DWG. DRAWING PHONE #: (306) 787-4113 ELEC. ELECTRICAL SHEET CONTACT: PLAN REVIEWER E.P. ELECTRIC PANEL SIMILAR 8. GOVERNING CODES: ALL WORK SHALL BE IN CONFORMANCE WITH, BUT NOT LIMITED TO, ELEV. ELEVATION SOLID CORE THE REQUIREMENTS OF THE FOLLOWING: AND ANY OTHER STATE AND STAINLESS STEEL E.W.C. ELECTRIC WATER COOLER LOCAL CODES HAVING JURISDICTION. EXIST STANDARD **EXISTING** EQUIP. STEEL **EQUIPMENT** 2015 NATIONAL BUILDING CODE OF CANADA EXH. **EXHAUST** STO. **STORAGE** PLUMBING: 2015 NATIONAL PLUMBING CODE OF CANADA EXP. JT. **EXPANSION JOINT** S.D. STORM DRAIN 2015 NATIONAL BUILDING CODE OF CANADA FINISH (ED) STRUCT. STRUCTURAL 2015 NATIONAL BUILDING CODE OF CANADA FIRE EXTINGUISHER SUSP. SUSPENDED 2011 NATIONAL ENERGY CODE OF CANADA FIREPROOFING T.B.D. TO BE DETERMINED FLOOR DRAIN TELEPHONE 9. CONSTRUCTION TYPE: JI-B FLUOR. **FLUORESCENT** TUBE STEEL F.R.T. FIRE RETARDANT TREATED TYPICAL FURR. FURRED (ING) UNLESS NOTED OTHERWISE I. GROSS LEASED PREMISES: 2,189 SQ. FT. VERT. VERTICAL GALV. GALVANIZED VEST. VESTIBULE GENERAL CONTRACTOR 2. OCCUPANCY LOADS: SALES FLOOR 1,841 SQ. FT. DIVIDED BY 60 = 31 VINYL COMPOSITION TILE GYP. BD. GYPSUM BOARD **FITTING ROOM** 54 SQ. FT. DIVIDED BY 60 = 1VERIFY IN FIELD HEATING/VENTILATION/ STOCK ROOM 294 SQ. FT. DIVIDED BY 300 = 1 WATER CLOSET AIR CONDITIONING WATERPROOF(ING) TOTAL OCCUPANTS = 33HOLLOW CORE WEATHER STRIPPING * TOTAL NUMBER OF EMPLOYEES AT ONE TIME = 3H.M. HOLLOW METAL WITH HORIZ. HORIZONTAL 3. FIRE SUPPRESSION SYSTEM: YES 🛭 NO 🗆 WITHOUT H.W. HOT WATER WOOD . MISCELLANEOUS NOTES: .TENANT'S GENERAL CONTRACTOR SHALL VISIT THE PREMISES AND VERIFY IN.(") INCH INT. INTERIOR ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL REPORT ALL DISCREPANCIES TO TENANT'S ARCHITECT. TENANT'S GENERAL CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS REGARDING **GRAPHIC SYMBOLS** CONSTRUCTION PROCEDURES, INSURANCE, ETC., AS SET FORTH BY THE 16. FIRE SPRINKLERS: DETAIL NUMBER -**ROOM NUMBER** AN AUTOMATIC FIRE SPRINKLER SYSTEM IS EXISTING WITHIN THIS SPACE. THE CONTRACTOR SHALL REWORK AND MODIFY FOR NEW ROOM LAYOUT & CEILING HEIGHTS IN CONFORMANCE WITH N.F.P.A. 13 STANDARDS & KEY NOTE SHEET WHERE LOCAL CODES & REGULATIONS. ALL WORK SHALL BE DONE BY A QUALIFIED DETAIL IS SHOWN SPRINKLER CONTRACTOR WHO SHALL DESIGN & PREPARE SHOP DRAWINGS PARTITION TYPE & SUBMIT THEM TO THE LANDLORD FOR APPROVAL PRIOR TO FABRICATION SECTION CUT & INSTALLATION. SPRINKLER CONTRACTOR SHALL BE LANDLORD APPROVED. HEADS IN CEILING TILES TO BE CENTERED IN TILES WHEN IN A PUBLIC AREA. DOOR NUMBER BUILDING CROSS **ELEVATION BENCHMARK** FIRE SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED

BY THE LICENSED FIRE SPRINKLER CONTRACTOR TO THE GOVERNING MUNICIPALIT

FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED

SITE LOCATION PLAN MIDTOWN PLAZA WALL PROVIDED WASHROOM OSTIVACE -1000 MALL PROVIDED WASHROOM

DETAILED SCOPE OF WORK

PROJECT SCOPE: NEW HOT TOPIC SPACE TENANT BUILD OUT, REMOVE NON-LOAD BEARING INTERIOR WALLS & INSTALL NEW NON LOAD BEARING WALLS. INSTALL TENANT FIXTURES, LIGHTING & TRACK LIGHTING. NEW HVAC WITH MECHANICAL DUCTS, WITHIN PREVIOUS TENANT USE/LEASED PREMISES.

DRAWING INDEX

| | SHEET | DESCRIPTION | REV | DATE |
|----|-------|----------------------------------|-------------|----------|
| 1 | T0.0 | TITLE SHEET | 4 | 08/29/23 |
| 2 | T1.0 | ARCHITECTURAL SPECIFICATIONS | | |
| 3 | T2.0 | ARCHITECTURAL SCHEDULES | | 08/25/23 |
| 4 | T3.0 | EGRESS PLAN | 4 | 08/29/23 |
| | | | | |
| 5 | D1.0 | DEMOLITION PLAN | 3 | 08/25/23 |
| | | | | |
| 6 | A1.0 | FLOOR PLAN | | 08/09/23 |
| 7 | A2.0 | REFLECTED CEILING PLAN | | 08/29/23 |
| 8 | A3.0 | FIXTURE / FLOOR FINISH PLAN | | 08/29/23 |
| 9 | A3.1 | FIXTURE DETAILS | | 08/25/23 |
| 10 | A4.0 | SALES AREA ELEVATIONS | | 08/09/23 |
| 11 | A4.1 | ELEVATIONS AND TOILET DETAILS | 4 | 08/29/23 |
| 12 | A4.2 | TYP. FITTING ROOM DETAILS | | |
| 13 | A5.0 | STOREFRONT PLAN & ELEVATION | | 08/25/23 |
| 14 | A5.1 | STOREFRONT SECTIONS | | 08/25/23 |
| 15 | A6.0 | STOREFRONT DETAILS | \triangle | 07/24/23 |
| 16 | A7.0 | SECTIONS & DETAILS | | |
| | | | | |
| 17 | M1.0 | MECHANICAL PLAN | | 08/09/23 |
| 18 | M2.0 | MECHANICAL DETAILS AND CALCS | 2 | 08/09/23 |
| 19 | M3.0 | MECHANICAL SPECIFICATIONS | | |
| | | | | |
| 20 | E1.0 | ELECTRICAL POWER PLAN | | 08/25/23 |
| 21 | E2.0 | ELECTRICAL LIGHTING PLAN | | 08/25/23 |
| 22 | E3.0 | ELECTRICAL DETAILS AND SCHEDULES | | 08/25/23 |
| 23 | E4.0 | ELECTRICAL SPECIFICATIONS | 3 | 08/25/23 |
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FIRE SPRINKLER SYSTEMFIRE ALARM SYSTEM

DEFERRED SUBMITTALS

HOT TOPIC PRE/POST PUNCHLIST

- 1. DOES FRONT DOOR AND BACK DOOR HAVE A 7-PIN CYLINDER FOR HT PROVIDED CORES?
 2. IF NOT ALREADY EXISTING, GC TO FURNISH AND INSTALL A PEEP HOLE AT 5'-0" AFF IN BACK DOOR
 3. GC TO INSTALL A PRY PLATE ON BACKDOOR IF NOT EXISTING
- 4. GC TO FURNISH AND INSTALL A NEW BATTERY FOR THE DETEX IN BACK DOOR 5. NOT USED.

SIGNAGE

HUDSON'S BAY

- 6. GC TO INSTALL 2 INK TAG DETACHERS IN CASHWRAP7. NOT USED8. CORK BOARDS TO BE INSTALLED IN THE BACK ROOM/HALLWAY BY GC AT STORE OPERATIONS DISCRETION
- 9. ADA STICKERS AND SIGNS TO BE INSTALLED BY GC ÓN CASHWRAP, FRONT WINDOW, AND FITTING ROOM 10. LOCKING COVER ON THERMOSTAT 11. GC TO SUPPLY 8 KEYS FOR FITTING ROOM DOORS (IF MULTIPLE FITTING ROOMS, FACH DOOR IS TO BE KEYED AL
- 1. GC TO SUPPLY 8 KEYS FOR FITTING ROOM DOORS (IF MULTIPLE FITTING ROOMS, EACH DOOR IS TO BE KEYED ALIKE)
 2. GC TO CAULK AROUND FITTING ROOM BENCHES AND BASE BOARDS WITH CLEAR SILICONE
 3. HANGER TITE TO BE INSTALLED IN BACKROOM PER HT OPERATIONS TEAM DIRECTION
- 14. IF WE ARE REUSING AN ADA FITTING ROOM, GC TO ADD A FITTING ROOM HOOK AT 48" NEXT TO FITTING ROOM BENCH
- 15. SLATWALL SCREW CHECK. MAKE SURE HARDWARE SLIDES FLUSH ALONG SLATS WHERE SCREW HEADS STICK OUT.

AS INDICATED IN THE AID DOCUMENT #A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" 1987 EDITION.

MODIFICATIONS TO GENERAL CONDITIONS:

4.4.1 ADD THE FOLLOWING: UTILITIES SHALL INCLUDE A JOB TELEPHONE TO BE INSTALLED WITHIN FIVE (5) WORKING DAYS AFTER COMMENCEMENT OF THE WORK. COORDINATE WITH TENANT UTILITY MANAGER

4.10.1 ADD THE FOLLOWING: CONTRACTOR SHALL SUPPLY PROJECT MANAGER WITH A COMPLETE LIST OF ALL SUB-CONTRACTORS INVOLVED WITH THE WORK, (NAME, ADDRESS AND TELEPHONE NUMBER) WITH SECOND APPLICATION FOR PAYMENT. SEND TWO COPIES TO THE HOME OFFICE, ATTENTION STORE PLANNING. HVAC AND H.W. HEATER INFORMATION MUST BE NOTED. REFER TO TENANT FORM.

<u>SUMMARY OF WORK:</u>

WORK OF CONTRACT CAN BE SUMMARIZED BY REFERENCE TO THE CONTRACT, GENERAL CONDITIONS, SPECIFICATIONS, DRAWINGS, ADDENDA AND MODIFICATIONS TO THESE DOCUMENTS ISSUED SUBSEQUENT TO THE INITIAL PRINTING OF SAME.

A RESPONSIBILITY SCHEDULE IS INDICATED ON THE PLANS. IT INCLUDES COORDINATION WITH OTHER WORK PERFORMED BY SEPARATE CONTRACTORS OF THE PROJECT.

CONTRACTOR RESPONSIBILITY: GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR: LABOR, MATERIAL, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, WATER, HEAT AND UTILITIES REQUIRED FOR CONSTRUCTION AS WELL AS ANY OTHER FACILITIES AND SERVICE NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK. WHEN WORK IS PERFORMED IN AN EXISTING STORE, PROVISIONS CAN BE MADE TO USE EXISTING UTILITIES, EXCEPT TELEPHONE, AND BILLS WILL BE PAID DIRECTLY BY TENANT. COORDINATE WITH TENANT UTILITY MANAGER @ (954) 433.3435.

GENERAL CONTRACTOR SHALL SECURE AND PAY FOR THE FOLLOWING ITEMS, NECESSARY FOR EXECUTION AND COMPLETION OF THE WORK, AND AS APPLICABLE AT THE TIME OF RECEIPT OF BIDS: PERMITS, FEES, LICENSES, BONDS AND INSURANCE'S REQUIRED BY LOCAL AUTHORITIES AND/OR LANDLORD.

ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION, AND IN ACCORDANCE WITH THE "DESIGN CRITERIA FOR TENANT WORK" ISSUED BY THE LANDLORD.

COMPLY WITH THE APPLICABLE SPECIFICATIONS AND STANDARDS OF UL, ASTM, ANSI, AWI, NEMA, AIA AND ALL OTHER STANDARDS OF MANUFACTURERS ASSOCIATIONS.

QUALITY ASSURANCE: THE CONTRACTOR ASSUMES OVERALL RESPONSIBILITY FOR THE WORK OF THIS PROJECT TO ASSURE THAT ALL ASSEMBLES, COMPONENTS AND PARTS INDICATED OR REQUIRED COMPLY WITH CONTRACT DOCUMENTS. ANY SUBSTITUTIONS MADE BY THE CONTRACTOR WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER WILL BE REJECTED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR ALSO ASSURES THAT ALL COMPONENTS, SPECIFIED OR REQUIRED TO SATISFACTORILY COMPLETE THE INSTALLATION ARE COMPATIBLE WITH EACH OTHER, WITH ADJOINING SUBSTRATES, MATERIALS AND WORK BY OTHER TRADES, AND WITH THE CONDITIONS OF INSTALLATION AND EXPECTED USE.

WHEREVER A FIRE RESISTANCE CLASSIFICATION IS INDICATED OR REQUIRED FOR CONSTRUCTION, PROVIDE MATERIALS, ACCESSORIES AND APPLICATION PROCEDURES WHICH COMPLY WITH THE REQUIREMENTS OF UL "FIRE RESISTANCE INDEX" FOR THE UL DESIGN NUMBERS CORRESPONDING WITH THE CONSTRUCTION ASSEMBLIES INDICATED.

SHORT / DAMAGED FREIGHT:

INDICATED BELOW ARE INSTRUCTIONS ON HOW TO HANDLE SHORT, OR DAMAGED FREIGHT:

- 1. BEFORE SIGNING THE FREIGHT BILL, NOTE SPECIFICALLY THE ITEM(S) DAMAGED OR MISSING i.e., ONE LIGHT FIXTURE, TWO PIECES OF SLATWALL, ETC.
- 2. AFTER DAMAGED OR MISSING ITEMS ARE NOTED ON FREIGHT BILL, HAVE CARRIER'S DRIVER ALSO SIGN IT. THIS WILL VERIFY THAT BOTH PARTIES AGREE TO THE EXTENT OF DAMAGE OR SHORT ITEMS.
- THERE ARE TIMES WHEN DAMAGE IS DISCOVERED ONLY UPON UNPACKING THE FREIGHT. IN ORDER TO RECEIVE PAYMENT FROM FREIGHT COMPANY, WE MUST PROVE THAT THE FREIGHT WAS DELIVERED IN DAMAGED CONDITION. THEREFORE, ALL CARTONS MUST BE INSPECTED FOR SIGNS OF DAMAGE OR ABUSE AND THIS IS TO BE NOTED.
- PHONE THE TRAFFIC DEPARTMENT IN HOFFMAN ESTATES, MITCH TODA (847) 765-4610, AND ADVISE EXTENT OF DAMAGE OR SHORTNESS AND TO RECEIVE DISPOSITION INSTRUCTIONS.
- 5. BE SURE TO CONTACT THE PROJECT MANAGER TO INFORM HIM/HER OF THE LOSS SO THAT, IF NECESSARY, THE ITEM(S) CAN BE REORDERED.

BE BACKCHARGED FOR DAMAGES AND MISSING ITEMS.

PROTECTION OF MATERIALS / FURNITURE ON SITE:
G.C. IS RESPONSIBLE FOR THE SECURITY, CARE AND DAMAGE PREVENTION OF ALL MATERIALS AFTER DELIVERY TO JOB SITE. G.C. WILL

EXISTING CONDITIONS:

GENERAL CONTRACTOR IS TO VISIT THE JOB SITE TO INSPECT THE EXISTING CONDITIONS AND TO VERIFY THE AMOUNT OF WORK THAT

EXAMINE THE SUBSTRATES AND ADJOINING CONSTRUCTION, AND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. DO

WILL BE NECESSARY FOR THE PROJECT TO BE COMPLETED ACCORDING TO THE CONSTRUCTION DOCUMENTS.

NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK HAVE BEEN CORRECTED. BEFORE PERFORMING ANY WORK OR ORDERING ANY MATERIAL, THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF ANY

EXISTING OR NEW WORK AND SHALL BE RESPONSIBLE FOR THEIR ACCURACY. ANY DIFFERENCES FOUND SHALL BE SUBMITTED TO THE

OWNER FOR CONSIDERATION BEFORE PROCEEDING WITH WORK.

PRODUCT HANDLING: DELIVER AND STORE MATERIALS IN SEALED CONTAINERS AND BUNDLES, FULLY IDENTIFIED WITH MANUFACTURER'S NAME, BRAND, TYPE AND GRADE. PROTECT MATERIALS FROM CORROSION AND DAMAGE. STORE IN A DRY VENTILATED SPACE, OFF THE GROUND. COORDINATE ALL DELIVERIES WITH THE MALL LANDLORD AND TENANT SUPPLIED MATERIAL VENDORS.

GENERAL CONTRACTOR WILL RECEIVE AND UNLOAD ALL FIXTURES FROM THE FIXTURE SUPPLIER. ACCORDING TO THE TERMS AND CONDITIONS IMPOSED BY THE MALL DEVELOPER. I.E. SPECIAL TIMES TO UNLOAD. ETC. FIXTURES TO BE SET BY GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL NOTIFY TENANT IMMEDIATELY OF ANY MISSING OR DAMAGED ITEMS THAT TENANT SUPPLIES AND GENERAL

CONTRACTOR INSTALLS. HE WILL OBTAIN AND FILL ALL NECESSARY PAPERWORK REQUIRED IN ORDER TO FACILITATE TENANT IN HIS ABILITY TO PROPERLY FILE CLAIM FOR DAMAGES OR LOSSES. REFER TO TENANT SHORTAGE/DAMAGED GOODS POLICY INCLUDED IN BID

EXECUTE PERIODIC CLEANING DURING PROCESS OF WORK, AND AT COMPLETION OF THE WORK, SO THAT ALL FINISHED SURFACES ARE FREE OF ANY FOREIGN MATERIAL. CONDUCT CLEANING AND DISPOSAL OPERATIONS TO COMPLY WITH CODES, ORDINANCES, REGULATIONS, ANTI-POLLUTION LAWS AND LANDLORD REQUIREMENTS. REMOVE GREASE, MASTIC, ADHESIVES, DIRT, STAINS, LABELS AND OTHER FOREIGN

CLEANING/ADJUSTING/MAINTENANCE/WARRANTIES:

MATERIALS FROM SIGHT EXPOSED SURFACES. GENERAL CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS FROM JOBSITE, ON A DAILY BASIS.

PROTECT AND MAINTAIN ALL WORK THROUGHOUT CONSTRUCTION SO THAT IT WILL BE FREE OF DAMAGE AT THE TIME OF ACCEPTANCE BY

THE TENANT.

STORE TO BE READY FOR OCCUPANCY — ALL SURFACES CLEAN. CLEANING/ADJUSTING/MAINTENANCE/WARRANTIES:

Part 1 - General

INSTRUCTIONS FROM TENANT.

A. FINAL CLEANING GENERAL CONTRACTOR TO PROVIDE A PROFESSIONAL CLEANING SERVICE TO EXECUTE FINAL CLEANING PRIOR TO

- ADJUST OPERATING PRODUCTS AND EQUIPMENT TO ENSURE TURN-OVER.
- C. OPERATION AND MAINTENANCE DATA SUBMIT DATA BOUND IN 8-1/2x11 INCH TEXT PAGES, THREE D PRODUCTS IN QUANTITIES SPECIFIED IN
 - INDIVIDUAL SPECIFICATION SECTIONS. PREPARE BINDER COVER WITH PRINTED TITLE "OPERATION & MAINTENANCE INSTRUCTIONS", TITLE OF PROJECT. SIDE RING BINDER W/ DURABLE PLASTIC COVERS.

PART 2 - PREPARATION / EXECUTION:

A. FINAL CLEANING

- CLEAN INTERIOR AND EXTERIOR GLASS, SURFACES EXPOSED TO VIEW; REMOVE TEMPORARY LABELS, STAINS & FOREIGN SUBSTANCES, POLISH TRANSPARENT AND GLOSSY SURFACES, VACUUM CARPETED AND SOFT SURFACES.
- CLEAN EQUIPMENT AND FIXTURES TO A SANITARY CONDITION WITH CLEANING MATERIALS APPROPRIATE TO
- THE SURFACE AND MATERIAL BEING CLEANED. REMOVE WASTE & SURPLUS MATERIALS, RUBBISH & CONSTRUCTION FACILITIES FROM THE SITE.

DEMOLITION:

ANY AND ALL DEMOLITION REQUIRED TO COMPLETE CONSTRUCTION FOR THIS PROJECT MUST BE CONSIDERED PART OF THIS CONTRACT AND SHOULD BE EXECUTED IN ACCORDANCE WITH THE LANDLORD'S REQUIREMENTS. REQUIREMENTS.

THE CONSTRUCTION DOCUMENTS INDICATED EXISTING CONDITIONS, WALLS, AREAS TO REMAIN BUT THE ARCHITECT DOES NOT CERTIFY THAT ALL DEMOLITION WORK IS INDICATED ON THE PLANS. ANY ITEMS INDICATED AS EXISTING, TO REMAIN, HAVE TO BE INSPECTED BY THE GENERAL CONTRACTOR TO DETERMINE IF ANY OF THESE ITEMS CAN BE REUSED. AT THE END OF CONSTRUCTION, THE EXISTING WALLS, AREAS, ETC., SHOULD BE LIKE-NEW CONSTRUCTION. ALL DEMOLISHED WORK SHALL BE REMOVED FROM THE PROJECT SITE AND LEGALLY DISPOSED OF. NO CONSTRUCTION MATERIALS ARE TO BE DISPOSED OF IN THE MALL TRASH RECEPTACLES OR DUMPSTERS WITHOUT LANDLORD'S PRIOR APPROVAL. REFER TO DEMOLITION PLAN NOTES.

SCOPE: FURNISH EQUIPMENT AND PERFORM LABOR REQUIRED TO EXECUTE THIS WORK AS INDICATED ON THE DRAWINGS AS SPECIFIED AND AS NECESSARY TO COMPLETE THE CONTRACT, INCLUDING, BUT NOT LIMITED TO, THESE MAJOR ITEMS.

A. PROTECTION OF EXISTING WORK TO REMAIN.

- B. DEMOLISH EXISTING CONSTRUCTION WHERE INDICATED ON THE DRAWINGS AND WHERE REQUIRED BY JOB CONDITIONS.
- C. REMOVAL OF PARTITIONS, DOORS, FLOOR COVERINGS, AND CEILINGS.
- D. REMOVAL AND CAPPING OF MECHANICAL AND ELECTRICAL FIXTURES AND SERVICES.
- E. DEBRIS REMOVAL AND DISPOSAL.
- REMOVAL OR CORING OF PORTIONS OF THE EXISTING CONCRETE SLAB AS REQUIRED FOR SERVICE AND EQUIPMENT LINE INSTALLATION. PATCHING SHALL BE ACCEPTABLE TO THE POINT THAT THE FINISH WILL ACCEPT SCHEDULED FINISH MATERIAL WITH NO NOTICEABLE EFFECT OF AN ALTERATION HAVING BEEN MADE.
- G. REMOVAL OF ANY EXISTING STOREFRONT, INCLUDING OVERHEAD ROLL-UP GRILLE.

2. GENERAL REQUIREMENTS

- A. THE CONTRACTORS SHALL BE FULLY RESPONSIBLE FOR THE ADEQUACY AND INSTALLATION OF ALL TEMPORARY SHORING SYSTEMS USED DURING THE REMOVING OF ALL STRUCTURAL ELEMENTS.
- B. THE DRAWINGS DO NOT NECESSARILY INDICATE THE FULL EXTENT OF THE WORK REQUIRED TO BE PERFORMED. INSPECT THE EXISTING CONSTRUCTION CAREFULLY TO DETERMINE THE FULL EXTENT OF WORK TO BE PERFORMED AND THE PROBLEMS INVOLVED. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO ESTIMATE THE FULL EXTENT OF THE WORK OR FOR ANY CONTINGENCY ALLOWANCES.
- C. ALL WORK SHALL BE PERFORMED BY SKILLED AND PROPERLY EQUIPPED PERSONNEL, DEMOLITION AND REMOVAL OF ITS ITEMS SCAFFOLD HIGH OR HIGHER SHALL BE LOWERED BY CONTROLLED METHODS, NOT BY THROWING OR DROPPING. PERFORM CUTTING AND STRIPPING SO THAT THE WORK TO REMAIN IS UNDAMAGED AND IN SUCH A MANNER THAT NEW WORK CAN BE PROPERLY BE CONNECTED WITH IT.
- D. UNFORESEEN CONDITIONS: INCLUDE IN THE BASE BID MISCELLANEOUS CUTTING AND PATCHING NECESSITATED AS A RESULT OF UNFORESEEN CONDITIONS AND THE REWORKING OF ABUTTING SURFACES AS REQUIRED TO MAKE NEW WORK JOIN AND MATCH EXISTING SURFACES TO REMAIN. NO EXTRA PAYMENTS BASED ON THE PLEA OF UNFORESEEN CONDITIONS WILL BE ALLOWED.
- E. G.C. TO COORDINATE WITH THE LANDLORD ALL WORK THAT MAY EFFECT NORMAL DAILY OPERATIONS OF THE LANDLORD PREMISES AND COMPLY WITH ALL RESTRICTIONS THE LANDLORD MAY HAVE ON DEMOLITION AND/ORCONSTRUCTION SCHEDULES. COOPERATE FULLY TO THE END THAT CERTAIN FACILITIES AND SERVICES ARE MAINTAINED IN OPERATION UNTIL IMMEDIATELY BEFORE THEIR REMOVAL IS REQUIRED TO PERMIT INSTALLATION OF NEW WORK.
- F. NOISE CONTROL: CARRY ON ALL WORK IN A MANNER WHICH WILL PRODUCE THE LEAST AMOUNT OF NOISE. INSTRUCT ALL
- WORKERS IN NOISE CONTROL PROCEDURES. PROTECTION OF PERSONNEL: ERECT SIGNS, BARRICADES AND SUCH OTHER FORMS OF WARNING AS MAY BE REQUIRED TO PREVENT PERSONNEL FROM PUTTING THEMSELVES IN THE WAY OF INJURY.
- MECHANICAL, ELECTRICAL, AND PLUMBING
- A. CAREFULLY REVIEW PLANS AND DETERMINE LINES TO BE REMOVED AND THOSETO BE KEPT ACTIVE OR TO BE REACTIVATED. PROTECT LINES TO REMAIN. PROVIDE FOR MINIMUM SERVICE INTERRUPTION OF LINES TO REMAIN.
- B. REMOVE LINES COMPLETELY WHENEVER POSSIBLE. CUT AND CAP OR PLUG TO PREVENT ESCAPE OF GAS, LIQUID, ETC.. BEHIND THE BACK OF THE FINISH MATERIAL.
- C. REPAIR, REPLACE, OR MAKE GOOD DAMAGE TO EXISTING CONSTRUCTION WHICH OCCURS AS A RESULT OF DEMOLITION OPERATIONS, AT NO ADDITIONAL COST TO OWNER, THE ARCHITECT OF RECORD, OR THE LANDLORD. THESE REPAIRS SHALL INCLUDE ANY ROOF PATCHING REQUIRED DUE TO DEMOLITION AND SHALL BE COORDINATED WITH LANDLORD AND LANDLORD'S ROOFING CONTRACTOR.

WHEN THE CONCRETE FLOOR SLAB IS EXISTING, PREPARE THE SLAB TO RECEIVE FINISH AS INDICATED ON THE PLANS. WHEN ON A GROUND FLOOR LOCATION, THE CONCRETE SLAB FLOOR SHALL BE SEALED IN THE AREAS TO RECEIVE CARPETING. WHEN SLAB FLOOR IS TO BE EXECUTED AS PART OF THE CONTRACT, FOLLOW LANDLORD'S DIRECTIONS AND SPECIFICATIONS.

<u>FLOOR SLAB MODIFICATIONS:</u>

GENERAL CONTRACTOR SHALL INSPECT THE EXISTING SLAB CONDITIONS TO DETERMINE THE AMOUNT OF CONCRETE FLOOR SLAB TO BE REMOVED AND REPLACED FOR INSTALLATION OF ELECTRICAL, MECHANICAL AND PLUMBING WORK AND STEEL COLUMNS FOR GRILLE SUPPORT. ALL CONCRETE TRENCHING AND REFILLING, AS WELL AS ANY AND ALL PENETRATIONS OF THE SLAB, SHALL BE EXECUTED IN ACCORDANCE WITH THE LANDLORD'S REQUIREMENTS.

STRUCTURAL METALS: THE DESIGN, FABRICATION AND INSTALLATION OF ALL MISCELLANEOUS METAL LINTELS, SUPPORTS AND FRAMING REQUIRED FOR ALL STORE FRONT WORK SHALL BE THE SOLE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR.

ROUGH CARPENTRY:

ALL WOOD FRAMEWORK, WOOD BLOCKING AND PLYWOOD CONSTRUCTION SHALL BE FIRE RETARDANT TREATED AS REQUIRED BY LOCAL CODES AND LANDLORD REQUIREMENTS. PARTICLE BOARD SHALL BE UL CLASS 1 FIRE-RATED, SANDED AND PREPARED TO RECEIVE PLASTIC LAMINATE OR PAINTED METAL

WOOD FRAMING MEMBERS SHALL BE NO. 1 LIGHT FRAMING DOUGLAS FIR OR NO. 2 OR BETTER YELLOW PINE OF THE DIMENSIONS INDICATED ON THE PLANS.

PLYWOOD SHALL BE GRADE B-D DOUGLAS FIR, SANDED AND PREPARED YO RECEIVE PLASTIC LAMINATE, METAL LAMINATE OR PAINT. PLYWOOD BACKING PANELS FOR MOUNTING ELECTRICAL OR TELEPHONE EQUIPMENT SHOULD BE FIRE RETARDANT TREATED PLYWOOD WITH GRADE DESIGNATION, APA C-D NOT LESS THAN 3/4" THICK.

PROVIDE FASTENERS AND ANCHORAGE OF THE TYPE, SIZE, MATERIAL AND FINISH AS RECOMMENDED BY APPLICABLE STANDARDS, COMPLYING WITH APPLICABLE FEDERAL SPECIFICATIONS FOR NAILS, STAPLES, SCREWS, BOLTS, NUTS, WASHERS AND ANCHORING

PROVIDE BLOCKING AS REQUIRED FOR INSTALLATION OF SHELVING, EQUIPMENT, ACCESSORIES, FIXTURES, AND FINISH HARDWARE OR OTHER HEAVY ITEMS ON WALLS.

ARCHITECTURAL WOODWORK:

FINISHED WOODS SHALL BE OF THE TYPE SPECIFIED IN THE PLANS AND SHOULD COMPLY WITH PREMIUM GRADE WORK AS DESCRIBED IN "ARCHITECTURAL WOODWORK QUALITY STANDARDS" PUBLISHED BY THE ARCHITECTURAL WOODWORD INSTITUTE.

CONDITION WOODWORK TO PREVAILING HUMIDITY CONDITIONS IN INSTALLATION AREAS PRIOR TO INSTALLING. INSTALL WOODWORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS.

THE WOOD SHALL BE STRAIGHT AND FREE OF BLEMISHES AND OF SUFFICIENT LENGTH TO PERMIT A MINIMUM NUMBER OF JOINTS.

INSTALL TO A TOLERANCE OF 1/8" IN 8'-0" FOR PLUMB & LEVEL & W/ NO VARIATIONS IN FLUSHNESS OF ADJOINING SURFACES. ANCHOR WOODWORK TO ANCHORS, OR BLOCKING BUILT-IN, OR DIRECTLY ATTACHED TO SUBSTRATE. SECURE W/ CONCEALED

ALL SURFACES SHALL BE SANDED TO A SMOOTH SURFACE, READY FOR STAINING OR FINISH PAINTING AS PER DETAILS AND

HARDWARE SHALL BE OF THE TYPE, FINISH AND MANUFACTURER SHOWN. MANUFACTURER'S CATALOG NUMBERS USED HEREIN ARE INTENDED TO INDICATE THE QUALITY REQUIRED. ALTERNATE MANUFACTURERS AND PRODUCTS MAY BE SUBMITTED TO THE TENANT FOR SUBSTITUTION APPROVAL. NO OTHERS SHALL BE ACCEPTABLE.

FURNISH HARDWARE TEMPLATES IN A TIMELY MANNER TO THE VARIOUS AFFECTED TRADES FOR COORDINATION OF THEIR WORK.

SEALANT:

PART 1 - GENERAL

- A. 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.

BEVELS. TRIM STILES AND RAILS ONLY TO THE EXTENT PERMITTED BY LABELING AGENCY.

- E. INSTALL JOINT BACKING.
- F. APPLY SEALANT WITHIN RECOMMENDED APPLICATION TEMPERATURE RANGES. CONSULT MANUFACTURER WHEN SEALANT CANNOT BE APPLIED WITHIN THESE TEMPERATURE RANGES.

 WOOD DOORS:

ALL INTERIOR WOOD DOORS SHALL BE SOLID CORE (COORDINATE WITH DOOR SCHEDULE) FLUSH CONSTRUCTION, OF THE DIMENSIONS SHOWN, AND SHALL MEET OR EXCEED THE ANSI/NWSA INDUSTRY STANDARD I.S./SERIES & AWI QUALITY STANDARD FOR ARCHITECTURAL DOORSKIN FOR PAINTED AND VINYL COVERED SURFACES SHALL BE OF PAINT GRADE. OVERALL THICKNESS OF DOORSKIN SHALL BE

1/8" AND SHOULD BE BELT SANDED FOR PAINT FINISH. FINAL SANDING BY FIELD FINISHER. WHEN REQUIRED BY CODE, FIRE DOORS SHOULD HAVE THE REQUIRED FIRE RATING. EXAMINE DOOR FRAMES AND VERIFY THAT THE FRAMES ARE THE CORRECT TYPE AND HAVE BEEN INSTALLED AS REQUIRED FOR PROPER

HANGING OF CORRESPONDING DOORS. ALIGN AND FIT THE DOORS IN THE FRAMES WITH THE FOLLOWING UNIFORM CLEARANCES AND

FOR NON-RATED DOORS, PROVIDE CLEARANCES OF 1/8" AT JAMBS AND HEADS, AND 1/8" FROM THE BOTTOM OF THE DOOR TO THE TOP OF THE FINISH OR COVERING. FOR FIRE-RATED DOORS, PROVIDE CLEARANCES AND CORRESPONDING FIRE-RATED FRAMES IN ACCORDANCE WITH REQUIREMENTS OF NFPA NO. 80

EXISTING DOORS: WHEN EXISTING DOOR IS TO REMAIN IN SERVICE, DOOR AND FRAME MUST BE RAISED 3/8" FROM EXISTING FLOOR TO PROVIDE FOR DOOR CLEARANCE IF OVER NEW CARPET.

- A. 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.
- B. PROVIDE COMMERCIAL GRADE HARDWARE, COMPLYING WITH PROJECT SPECIFICATIONS, IN SETS ACCORDING TO THE SCHEDULE HEREIN AND ON DOOR SCHEDULE DRAWING. REFER TO DOOR SCHEDULE HARDWARE

PART 2 - PREPARATION / EXECUTION

- A. COORDINATE THE WORK WITH OTHER DIRECTLY AFFECTED SECTIONS INVOLVING FABRICATION OF WALL INT. REINFORCEMENT FOR DOOR HARDWARE & 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.
- WHEREVER CUTTING AND FITTING IS REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR OTHERWISE FINISHED, INSTALL EACH ITEM COMPLETELY, THEN REMOVE AND STORE DURING APPLICATION OF FINISHES. REINSTALL UPON COMPLETION OF FINISHING OPERATIONS. SPACE FASTENERS AND ANCHORAGES AS INDICATED OR IN ACCORDANCE WITH FACTORY STANDARDS.
- F. ADJUST HARDWARE FOR SMOOTH OPERATION.

08710 DOOR HARDWARE: PART 1 - GENERAL

- A. FURNISH & INSTALL FINISH HARDWARE FOR INTERIOR & EXTERIOR DOORS WHEN CALLED FOR ON PLAN
- B. SEE DOOR SCHEDULE FOR SPECIFIC ITEMS, MANUFACTURERS AND MODEL NUMBERS. TEMPLATES SHALL BE FURNISHED FOR USE IN FIELD.
- C. FOLLOW DHI (DOOR AND HARDWARE INSTITUTE) STANDARDS & GUIDELINES AND AWI (AMERICAN WOODWORKING INSTITUTE) STANDARDS FOR HARDWARE INSTALLED ON WOOD DOORS.
- D. FURNISH OWNER WITH MAINTENANCE DATA, MAINTENANCE PROCEDURES, MANUFACTURERS WARRANTIES AND SPECIAL TOOLS.
- E. FINISHES: PER HARDWARE SCHEDULE

GYPSUM DRYWALL SYSTEMS:

PROVIDE ALL GYPSUM DRYWALL MATERIALS THROUGHOUT THE WORK PRODUCED BY ONE MANUFACTURER. PROVIDE METAL STUDS AND FRAMING MEMBERS OF TYPES, GAUGES, SIZES AND CORROSIVE RESISTIVE TREATMENTS AS SHOWN.

STUDS AND FRAMING: ROLL FORMED CHANNEL STUDS AND RUNNERS: ASTM C-645, FABRICATED OF

GALVANIZED STEEL PER ASTM WITH FLANGES NOT LESS THAN 1 1/4" OF THE SIZES AND GAUGES SHOWN.

METAL FURRING CHANNELS: HAT SHAPED, 7/8" HIGH, 25 GAUGE GALVANIZED.

BACKER PLATES: 20 GAUGE GALVANIZED.

HANGER WIRE: GALVANIZED, SOFT TEMPER STEEL WIRE, SIZED IN ACCORDANCE WITH ASTM C-754.

HANGER ANCHORAGE: PROVIDE CONCRETE INSERTS, CLIPS, BOLTS, SCREWS AND OTHER DEVICES APPLICABLE TO THE INDICATED METHOD OF STRUCTURAL ANCHORAGE FOR CEILING HANGERS.

FURRING ANCHORAGE'S: 16 GAUGE GALVANIZED WIRE TIES, MANUFACTURER'S STANDARD WIRE-TYPE CLIPS, BOLTS, NAILS OR SCREWS, IN ACCORDANCE WITH ASTM C-754. METAL TO METAL WITHIN THE DRYWALL SYSTEM: 3/8" TYPE "S" OR S-12. PAN HEAD.

ADHESIVES: AS RECOMMENDED BY THE GYPSUM BOARD MANUFACTURER. TRIM ACCESSORIES:

PROVIDE TRIM ACCESSORIES OF THE SIZES REQUIRED FOR THE DRYWALL APPLICATIONS SHOWN SPECIFIED, FABRICATED FROM GALVANIZED STEEL, & OF THE FOLLOWING TYPE: PROVIDE DRYWALL MOULDING OF THE TYPE AND SIZE INDICATED. PROVIDE METAL CORNER BEAD AT EXTERNAL CORNERS WITH SMOOTH RIGID NOSE AND PERFORATED AND KNURLED FLANGES. CONCEAL FLANGES WITH AT LEAST 2 COATS OF JOINT COMPOUND FEATHERED OUT APPROXIMATELY 9" ON BOTH SIDES OF THE EXPOSED METAL.

WHERE DRYWALL ABUTS OR INTERSECTS DISSIMILAR CONSTRUCTION, PROVIDE SQUARE EDGE SEMI-FINISHING CASING BEAD (NO JOINT COMPOUND TREATMENT NECESSARY).

TAPE AND JOINT MATERIAL SHALL BE APPLIED TO THE JOINTS. THE JOINT COMPOUND SHALL BE SMOOTHED OUT APPROXIMATLEY 4" WIDE. THIS IS TO BE IN THE NORMAL THREE-COAT PROCESS, ALLOWING 24 HOURS DRYING TIME BETWEEN COATS. ALL NAILS, SCREWS, HEADS OR DIMPLES SHALL ALSO RECEIVE A THREE—COAT FINISH USING THE SAME MATERIAL AND MANNER NAILS, SCREWS, HEADS OR DIMPLES SHALL ALSO RECEIVE A THREE—COAT FINISH USING THE SAME MATERIAL AND MANNER AS THAT FOR AS THAT FOR THE JOINTS. SAND SMOOTH ALL JOINTS AND SURFACES AND HAVE THEM READY TO RECEIVE THE WALL FINISH. VERIFY SAND SMOOTH ALL JOINTS AND SURFACES AND HAVE THEM READY TO RECEIVE THE WALL FINISH. VERIFY THAT THE EXISTING WALL THAT THE EXISTING WALL SURFACES, IF ANY, ARE SMOOTH AND SUITABLE, AS A SUBSTRATE FOR THE FINISHES SCHEDULED.

GYPSUM BOARD:

5/8" THICK UNLESS NOTED OTHERWISE.

ASTM C36, TAPERED EDGES. PROVIDE "TYPE X" (FIRE RETARDANT) WHERE SHOWN AND AT DEMISING WALLS.

WATER RESISTANT GYPSUM BOARD (GREENBOARD) ASTM C-630 TYPE "W". PROVIDE FOR WET WALLS IN TOILETS. USE "DURLOCK" BEHIND ALL CERAMIC TILE AND MARBLE ON WALLS.

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 AND RECOMMENDATIONS.
- B. GYPSUM DRYWALL: ALL GYPSUM BOARD TO BE 5/8" TYPE "X" AS NOTED ON SHEET A1.0 (CONSTRUCTION PLAN). RESTROOMS 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.

- G.C. SHALL PROVIDE AND INSTALL ACCESS PANELS AS REQUIRED BY LANDLORD AND SITE CONDITIONS (COORDINATE SIZE
- ACCESS PANELS SHALL BE FLUSH TYPE (NO EXPOSED FLANGES) STYLE "DW" AS MANUFACTURED BY: MILCOR, 1101 EAST KIBBY,
- LIMA, OHIO, 45804. PHONE NUMBER: 419-227-6899 (SIZE AS REQUIRED)

PORCELAIN TILE:

SECTION 1-PRODUCTS 1.1 CERAMIC TILE SHALL CONFORM TO REQUIREMENTS OF ANSI A137.1-1988 TYPE: CERAMIC TILE, REFER TO MATERIALS SCHEDULE.

SIZE: CERAMIC TILE SHALL BE MANUFACTURED TO SPECIFIC SIZE AFTER FIRING AND SHALL BE NOMINAL SIZE, REFER TO MATERIALS SCHEDULE.

THICKNESS: CERAMIC TILE SHALL BE MANUFACTURED TO SPECIFIC THICKNESS AFTER FIRING AND SHALL BE NOMINAL, REFER TO MATERIALS SCHEDULE. COLOR: REFER TO MATERIALS SCHEDULE.

1.2 SETTING MATERIALS: USE APPROPRIATE INSTALLATION MORTARS ACCORDING TO ANSI A118. SERIES OR

1.3 GROUTING MATERIALS: SELECT GROUT PER ANSI A118.3, A118.5, A118.6 OR A118.8- 1992. POLYBLEND NON-SANDED GROUT. MANUF. : BONSAL CO. COLOR: HONEY. 1.4 WATERPROOFING/ANTI-FRACTURE MEMBRANE: SELECT PER ANSI A118.10-1993 AS REQUIRED.

1/8" IN 8' 1/8" IN 10'

TO ASSURE PROPER BOND COVERAGE CONSISTENT WITH INDUSTRY SPECIFICATIONS.

1.5 GROUT SEALER: BONSAL OR EQUAL.

SECTION 2-INSTALLATION 2.1 ACCEPTABILITY OF SURFACES

WALLS FLOORS

A. BEFORE TILING, VERIFY THAT ALL SURFACES TO BE TILED ARE STRUCTURALLY SOUND TRUE TO PLANE, AND FALL WITHIN MAXIMUM VARIATIONS SHOWN BELOW:

REPORT ALL UNACCEPTABLE SURFACES TO THE ARCHITECT IN WRITING, AND DO NOT TILE SUCH SURFACES UNTIL THEY ARE LEVELED ENOUGH TO MEET ABOVE REQUIREMENTS. B. BEFORE TILING, ALL SURFACES MUST BE FREE OF CURING COMPOUNDS, OIL, GREASE, WAX, DIRT, DUST, FORM RELEASES OR

THIN-SET METHOD, CONCRETE SLABS SHALL BE STEEL TROWEL OR LIGHT BROOM FINISH. 2.2 SETTING METHODS: COMPLY WITH APPROPRIATE ANSI A108 SPECIFICATION CURRENT AND TILE COUNCIL OF AMERICA HANDBOOK FOR APPROPRIATE METHOD OF INSTALLATION FOR EACH SPECIFICATION. FOR ADHESIVE MORTAR APPLICATION USE FOLLOWING: WITH FLAT SIDE OF TROWEL, KEY MORTAR INTO SUBSTRATE. USING THE APPROPRIATE SIZE TROWEL, COMB MORTAR IN ONE DIRECTION WITH NOTCHED SIDE OF TROWEL. SET TILE WITH A SLIDING MOTION, PERPENDICULAR TO THE MORTAR % COVERAGE AS POSSIBLE OF MORTAR TO TILE. RIDGES. OBTAIN AS NEAR AS 100 MORTAR MUST BE SUFFICIENTLY DISTRIBUTED

TO GIVE FULL SUPPORT UNDER ALL CORNERS AND EDGES OF THE TILE. PERIODICALLY, REMOVE SHEETS OR INDIVIDUAL TILES

OTHER SUBSTANCES THAT WOULD INTERFERE WITH PROPER BOND OF SETTING MATERIALS. IF TILE IS INSTALLED BY THE

2.3 MAX. GROUT JOINT = 1/8".

2.4 EXPANSION JOINTS: INSTALL ARCHITECTURALLY DESIGNED EXPANSION JOINTS AS PER CURRENT TCA DETAIL EJ171. PREFABRICATED EXPANSION JOINT STRIPS CAN ALSO BE USED WHEN SUITABLE.

2.5 GROUTING METHODS: FOLLOW EXACTLY GROUT MANUFACTURES INSTRUCTIONS AND COMPLY WITH APPROPRIATE ANSI A108 SPECIFICATION DEPENDING ON TYPE OF GROUT SELECTED. GROUTING IS NOT COMPLETE UNTIL ALL GROUT HAZE AND RESIDUES ARE REMOVED FROM THE SURFACE OF THE TILE.

2.6 GROUT SEALER: COMPLY WITH MANUFACTURES INSTRUCTIONS AND APPROPRIATE ANSI SPECIFICATIONS FOR PRODUCT

SELECTED. 2.7 CLEANING AND PROTECTION

A. LEAVE FINISHED INSTALLATION FREE OF CRACKED, CHIPPED, BROKEN, UNBONDED OR OTHERWISE DEFECTIVE TILE WORK.

PROTECT ALL FLOOR TILE INSTALLATIONS WITH CLEAN CONSTRUCTION PAPER OR OTHER HEAVY COVERING DURING CONSTRUCTION PERIOD TO PREVENT STAINING OR DAMAGE. NO FOOT OR WHEEL TRAFFIC PERMITTED ON FLOOR FOR AT LEAST THREE (3) DAYS AFTER GROUTING.

BASED ON SHERWIN-WILLIAMS:

PROVIDE PAINTING AS SHOWN OR SPECIFIED. THE TERM "PAINT" INCLUDES ALL OPAQUE OR NATURAL, PRIME, INTERMEDIATE OR FINISH COATS OF FIELD APPLIED COATINGS. APPLY PAINT IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. USE APPLICATORS AND TECHNIQUES BEST SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED. PROVIDE TOP-OF-THE-LINE PAINT PRODUCTS MANUFACTURED BY ONE OF THE FOLLOWING MANUFACTURERS: ALL DESCRIPTIONS

BENJAMIN MOORE, PPG INDUSTRIES, SHERWIN-WILLIAMS, PRATT & LAMBERT, GLIDDEN,

PROTECT SUCH ITEMS AS HARDWARE, ACCESSORIES, PLATES, LIGHT FIXTURES AND SIMILAR ITEMS PLACED PRIOR TO PAINTING. PREPARE SURFACES TO RECEIVE PAINT: THOROUGHLY CLEAN OFF GRIME, GREASE, DIRT, CHALK, DUST, LOOSE MATERIAL AND

PROVIDE SUITABLE COVERING TO PROTECT WORK. THE WORK OF OTHERS AND ADJACENT SURFACES AND OBJECTS. REMOVE OR

BETWEEN EACH SUCCEEDING COAT OF PAINT. FILL DENTS. CRACKS. HOLLOW PLACES. OPEN JOINTS AND OTHER IRREGULARITIES WITH AN APPROVED FILLER SUITABLE FOR THE PURPOSE. AFTER SETTING, SAND TO A SMOOTH, HARD FINISH.

OTHER SUBSTANCES THAT MAY INTERFERE WITH PROPER ADHESION OF PAINT. PAINT DRY SURFACE ONLY. SAND LIGHTLY

CLEAN OFF ALL PAINT SPLATTER OCCURRING ON ADJACENT WORK. REPAIR OR REPLACE WITH NEW APPROVED MATERIAL ALL SURFACES DEFACED AS A RESULT OF THE WORK OF THIS SECTION AND LEAVE WORK IN A CLEAN, ACCEPTABLE CONDITION.

PRIME GYPSUM BOARD SURFACES WITH A LATEX PRIMER AND APPLY TWO (2) COATS OF ACRYLIC LATEX, "REGAL WALL SATIN" PRIME WOODWORK SURFACES AND TRIMS WITH A WOOD PRIMER, AND APPLY TWO (2) COATS OF "REGAL AQUAGLO" SATIN FINISH

ENAMEL. WHEN TRANSPARENT FINISHES ARE CALLED FOR, USE MULTIPLE COATS TO PRODUCE GLASS-SMOOTH SURFACE FILM

OF EVEN LUSTER. PROVIDE SATIN FINISH FOR FINAL COAT.

PRIME METAL SURFACES (AC REGISTERS AND DIFFUSER ACCESS PANELS) WITH AN ADEQUATE PRIMER AND APPLY TWO (2) COATS OF FLAT LATEX TO MATCH CEILING COLOR. PAINT INTERIOR SURFACES O.D. DUCTS WHERE VISIBLE THROUGH REGISTERS OR GRILLES WITH A FLAT. NON SPECULAR BLACK PAINT. OMIT PRIMER ON SURFACES THAT HAVE BEEN SHOP-PRIMED.

PRIME DOOR SURFACES AND TRIM WITH ENAMEL PRIMER AND APPLY TWO (2) COATS OF SATIN FINISH ENAMEL AS SCHEDULED.

ILLUMINATED SIGNS AND CEILING ELEMENTS:

SUPPLIED AND INSTALLED BY TENANT'S SIGN CONTRACTOR. GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION TO ASSURE PROPER COMPLIANCE WITH CONSTRUCTION DOCUMENTS AND LANDLORD CRITERIA.

PLUMBING, & ELECTRICAL FOR THE EQUIPMENT LIST.

INTERIOR SIGNAGE: SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR AS PER MANUFACTURER'S INSTRUCTIONS. REFER TO DRAWINGS FOR TYPE AND LOCATION

<u>DIVISION 011000 - EQUIPMENT:</u> <u>011001 – EQUIPMENT</u>

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.

C. EQUIPMENT SHALL BE FURNISHED, UNLOADED, UNPACKED OR UNCRATED AND PLACED ACCORDING TO THE CONSTRUCTION

- ALL EQUIPMENT WORK SHALL COMPLY WITH ALL GOVERNING BUILDING CODES AND LOCAL CODES.
- DOCUMENTS. PART 2 - PREPARATION / EXECUTION

A. ALL EQUIPMENT PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR IS TO BE INCLUDED IN GENERAL BID. B. GENERAL CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DAMAGE TO THE EQUIPMENT PRIOR TO INSTALLATION.

D. ALL EQUIPMENT MANUALS, INSTRUCTION BOOKLETS & WARRANTY INFORMATION SHALL BE NEATLY BOUND & TURNED OVER TO THE OWNER BEFORE FINAL APPROVAL OF THE BUILDING.

C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL HOOKUP OF ALL EQUIPMENT SUCH AS ALL MECHANICAL WORK,

END OF DIVISION

- REQUIREMENTS, NUMBER OF PANELS REQUIRED AND LOCATIONS WITH LANDLORD AND ALL MECHANICAL TRADES).
- 3. PANELS TO BE FACTORY PRIMED (WHITE) READY TO RECEIVE FINAL FINISH (PAINT) BY G.C.

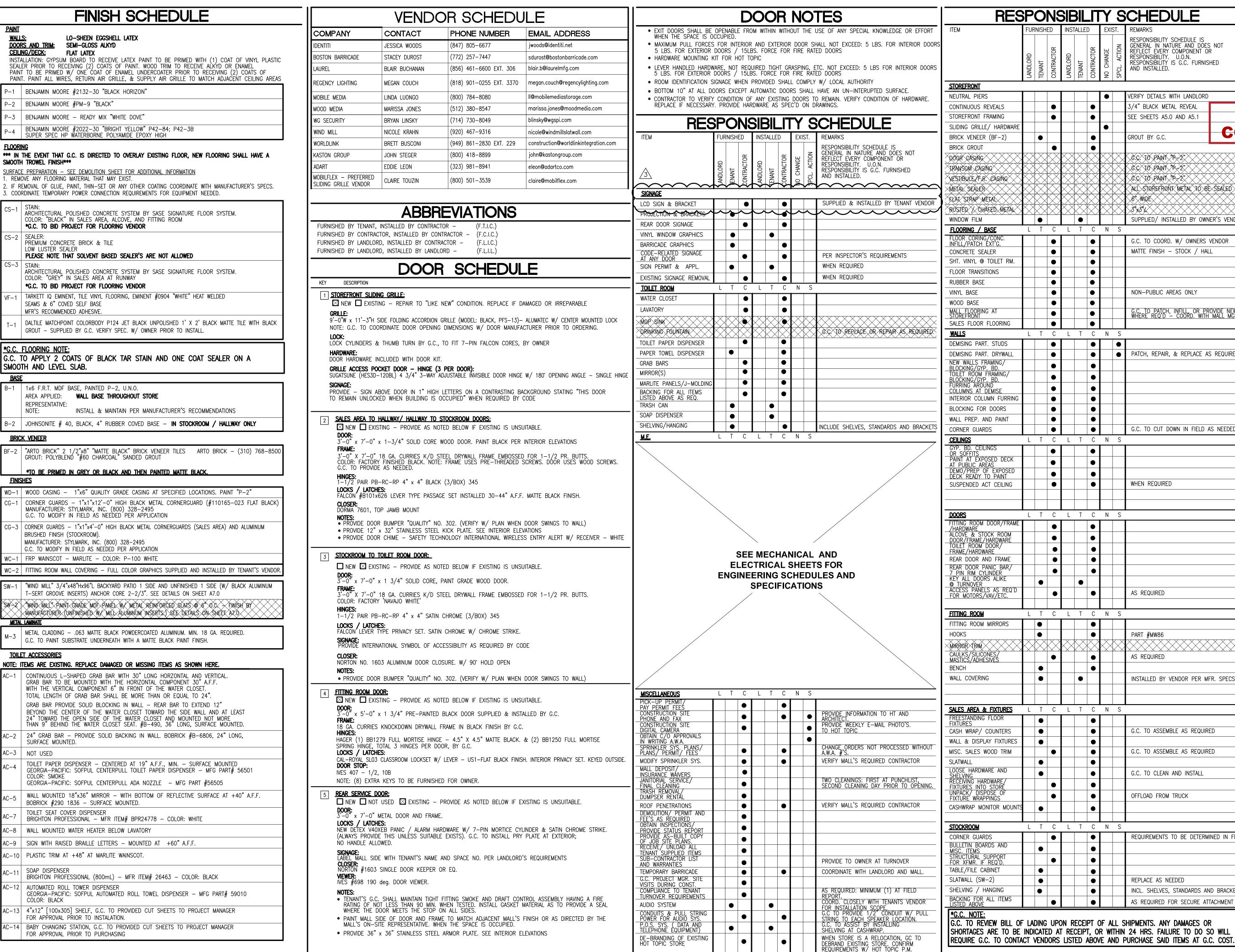
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NSTALLED GENERAL IN NATURE AND DOES NOT REFLECT EVERY COMPONENT OR RESPONSIBILITY IS G.C. FURNISHED AND INSTALLED. /ERIFY DETAILS WITH LANDLORD /4" BLACK METAL REVEAL ISSUED FOR EE SHEETS A5.0 AND A5.1 CONSTRUCTION GROUT BY G.C. 6.c. to paint "P-2", G.C. IO PAINT "P-2" Ğ.Ç.XXXX PANYT\"P>~2", ALLXSTQREFRQNX METALXOXBEXSEALED> SUPPLIED/ INSTALLED BY OWNER'S VENDOR G.C. TO COORD. W/ OWNERS VENDOR MATTE FINISH - STOCK / HALL NON-PUBLIC AREAS ONLY G.C. TO PATCH, INFILL, OR PROVIDE NEW WHERE REQ'D — COORD. WITH MALL MGMT C N PATCH, REPAIR, & REPLACE AS REQUIRED G.C. TO CUT DOWN IN FIELD AS NEEDED C N WHEN REQUIRED LTCLTCNS AS REQUIRED LTCLTCNS PART #MW86 AS REQUIRED DTOWN INSTALLED BY VENDOR PER MFR. SPECS. LTCLTCNS CLS G.C. TO ASSEMBLE AS REQUIRED G.C. TO ASSEMBLE AS REQUIRED G.C. TO CLEAN AND INSTALL OFFLOAD FROM TRUCK |님|님| LTCLTCNS REQUIREMENTS TO BE DETERMINED IN FIELD REPLACE AS NEEDED INCL. SHELVES, STANDARDS AND BRACKETS AS REQUIRED FOR SECURE ATTACHMENT G.C. TO REVIEW BILL OF LADING UPON RECEIPT OF ALL SHIPMENTS. ANY DAMAGES OR

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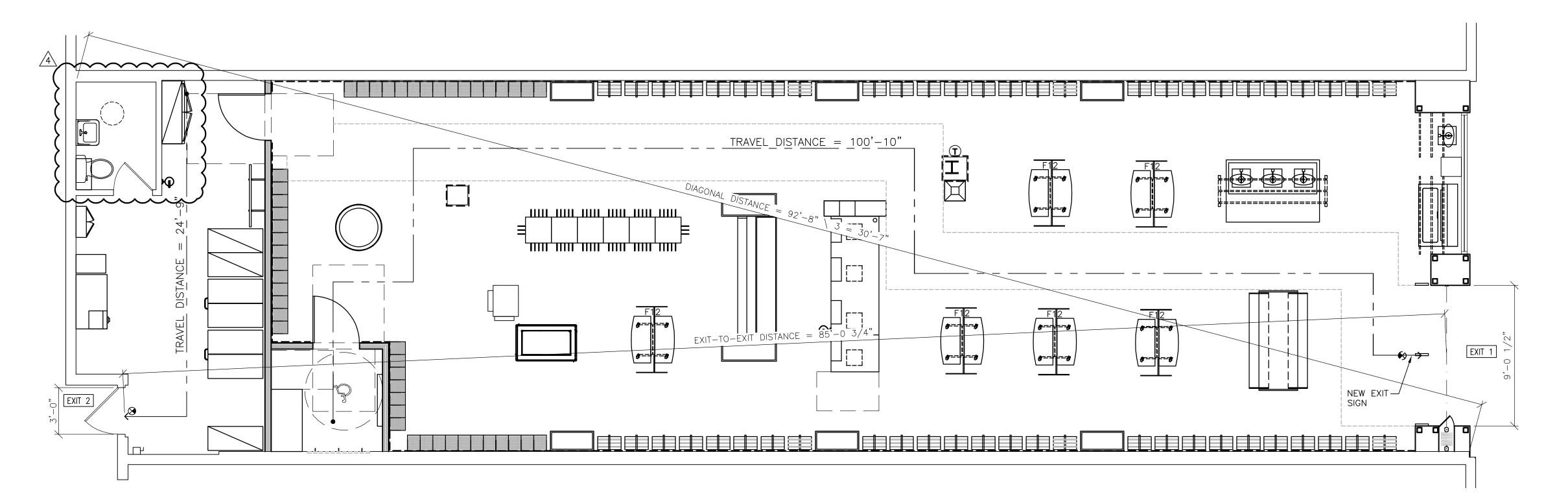
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S7K

201 IST AVENUE SASKATOON, S

ISSUED FOR CONSTRUCTION



1 EGRESS PLAN SCALE: 1/4" - 1'-0"

1. TACTILE SIGNAGE

- A. INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES, OR PROVIDING INFORMATION OR DIRECTION, SHALL COMPLY WITH 703.1 GENERAL, 703.2 RAISED CHARACTERS, 703.3 BRAILLE AND 703.5 VISUAL CHARACTERS. WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF PERMANENT INTERIOR ROOMS AND SPACES, THE PICTOGRAMS SHALL COMPLY WITH 703.6 AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH 703.2 AND 703.5.
- B. WHEN SIGNS IDENTIFY, OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURE OF A BUILDING OR SITE, THEY SHALL INCLUDE THE APPROPRIATE SYMBOL OF ACCESSIBILITY OR PICTOGRAM, WITH THE EQUIVALENT VISUAL AND TACTILE DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM, THE PICTOGRAM SHALL BE MINIMUM 6 INCHES IN HEIGHT.
- 3.1. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
- 3.2. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
- 3.3. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2 RAISED CHARACTERS, 703.3 BRAILLE AND 703.4 INSTALLATION HEIGHT AND LOCATION.
- . VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
- CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- C.2. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. TEXT SHALL BE IN A HORIZONTAL FORMAT.
- .3. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OF OTHER UNUSUAL FORMS.
- 4. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE LIPPEPPASE LETTER "I"
- C.5. VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
- C.6. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
- D. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4 AND BE UPPERCASE, STANDARD SANS SERIF FONT, RAISED MIN. 1/32" OFF THE BACKGROUND. THE HEIGHT OF TACTILE CHARACTERS SHALL BE BETWEEN 5/8" AND 2". CHARACTERS SHALL BE ACCOMPANIED BY GRADE II BRAILLE LOCATED 3/8" MINIMUM AND 1/2" MAXIMUM BELOW THE BOTTOM EDGE OF CHARACTER.
- E. GRADE II BRAILLE SHALL HAVE DOMED OR ROUNDED DOTS RAISED .025" MIN. TO .037" MAX. OFF THE BACKGROUND, WITH DOTS SPACED 1/10" WITHIN CELLS, AND 3/10" BETWEEN CELLS.
- MOUNTING LOCATION & HEIGHT. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE. SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
- UNISEX TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY A COMBINED CIRCLE AND TRIANGLE SYMBOL. THE COMBINED CIRCLE AND TRIANGLE SYMBOL SHALL CONSIST OF A CIRCLE SYMBOL 1/4 INCH THICK AND 12 INCHES IN DIAMETER WITH A 1/4 INCH THICK EQUILATERAL TRIANGLE SYMBOL SUPERIMPOSED ON AND GEOMETRICALLY INSCRIBED WITHIN THE 12-INCH DIAMETER OF THE CIRCLE SYMBOL. THE VERTICES OF THE TRIANGLE SYMBOL SHALL BE LOCATED 1/4 INCH MAXIMUM FROM THE EDGE OF THE CIRCLE SYMBOL WITH A VERTEX POINTING UPWARD. THE COLOR OF THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

2. EXIT ROUTE SIGNAGE

- A. EACH GRADE LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT WITH THE WORD "EXIT".
 - B. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:

 1) "EXIT STAIRS DOWN" 2) "EXIT RAMP UP" 3) "EXIT STAIR UP"

 4) "EXIT RAMP UP".
 - C. EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".
 - D. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".
 - E. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS "TO EXIT".

.:·*

EXIT ROUTE

1218 8481

LIFE SAFETY/EGRESS NOTES

CONTRACTOR TO FIELD VERIFY THE PRESENCE OF A DUCT SMOKE DETECTOR & THAT IT IS IN COMPLIANCE WITH IBC 2015 MECHANICAL SECTION 606 AND NFPA 90A. SEE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.

2. SEE REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PLAN FOR DESCRIPTION OF LIGHT FIXTURES SHOWN.

- 3. PROVIDE (1) TYPE-ABC FIRE EXTINGUISHER FOR EACH 2,500 S.F. AND NOT MORE THAN 75 FEET APART.
- FIRE EXTINGUISHERS SHALL BE VISIBLE AND ACCESSIBLE
 AT ALL TIMES DURING REMODELING.
- 5. ALL EXIT WAYS SHALL BE KEPT FREE AND CLEAR FOR EXITING AND ENTERING PURPOSES.
- 5. REFER TO DOOR SCHEDULE ON A100 FOR MORE INFORMATION ON DOOR HARDWARE ALONG EGRESS
- 7. EXIT SIGNS & EMERGENCY LIGHTING REQUIRED IN ALL ROOMS, INCLUDING RESTROOMS. REFERENCE ELECTRICAL SHEETS FOR MORE INFORMATION.

DENOTES 5LB ABC FIRE EXTINGUISHER

MEANS OF EGRESS

PROVIDED

NO. OF EXITS:

EXIT WIDTH PROVIDED:

(EXIT WIDTH REQ'D:[OCC. LOAD x FACTOR (0.2")]:

MAXIMUM DISTANCE TO EXITS:

(MAXIMUM ALLOWED - 250')

EXIT SEPARATION

LONGEST DIAGONAL

REQUIRED (SPRINKLERED)

TOTAL: 2

144.5"
32" MIN.

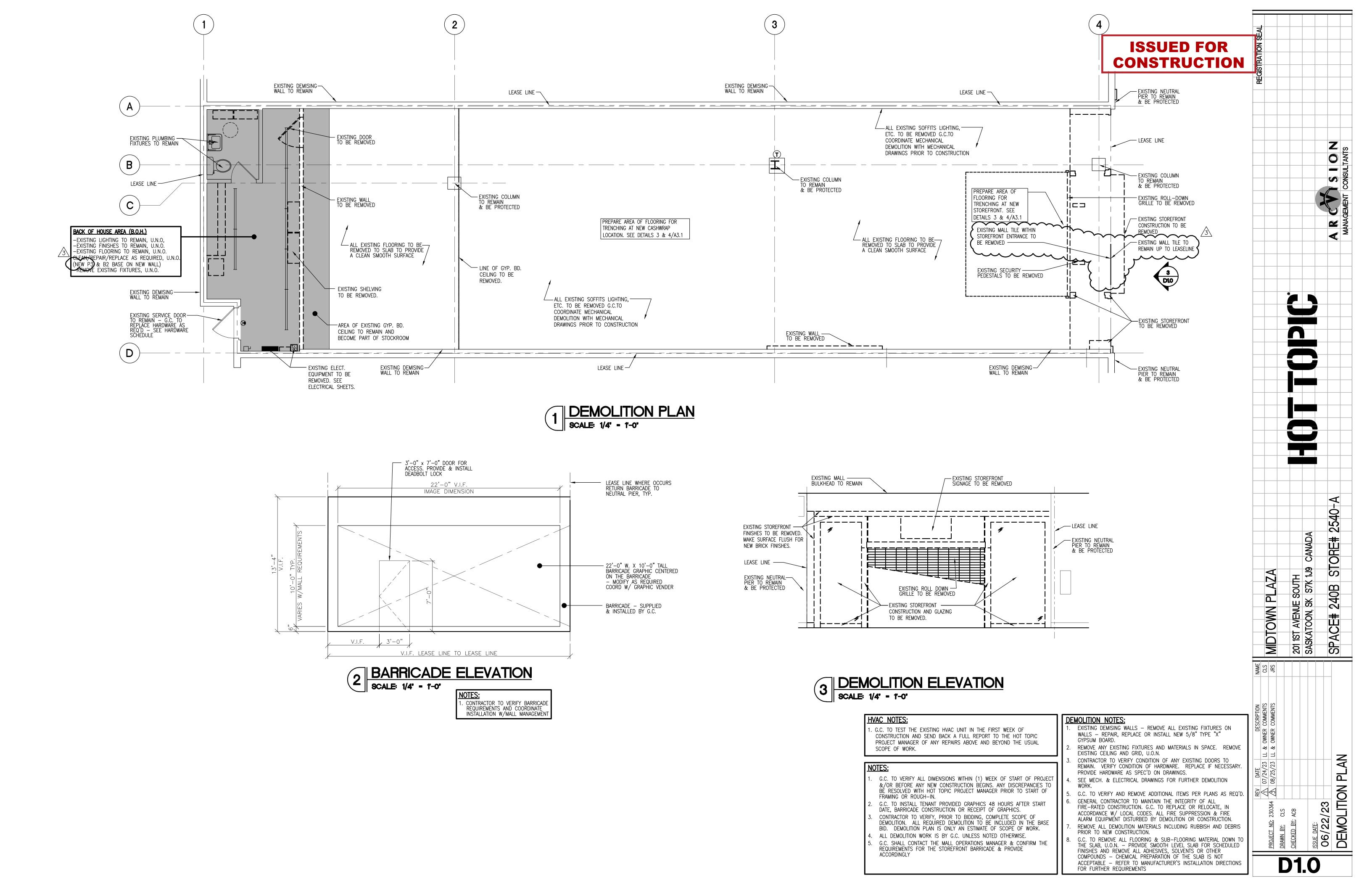
100'-10"
92'-2"
30'-7"

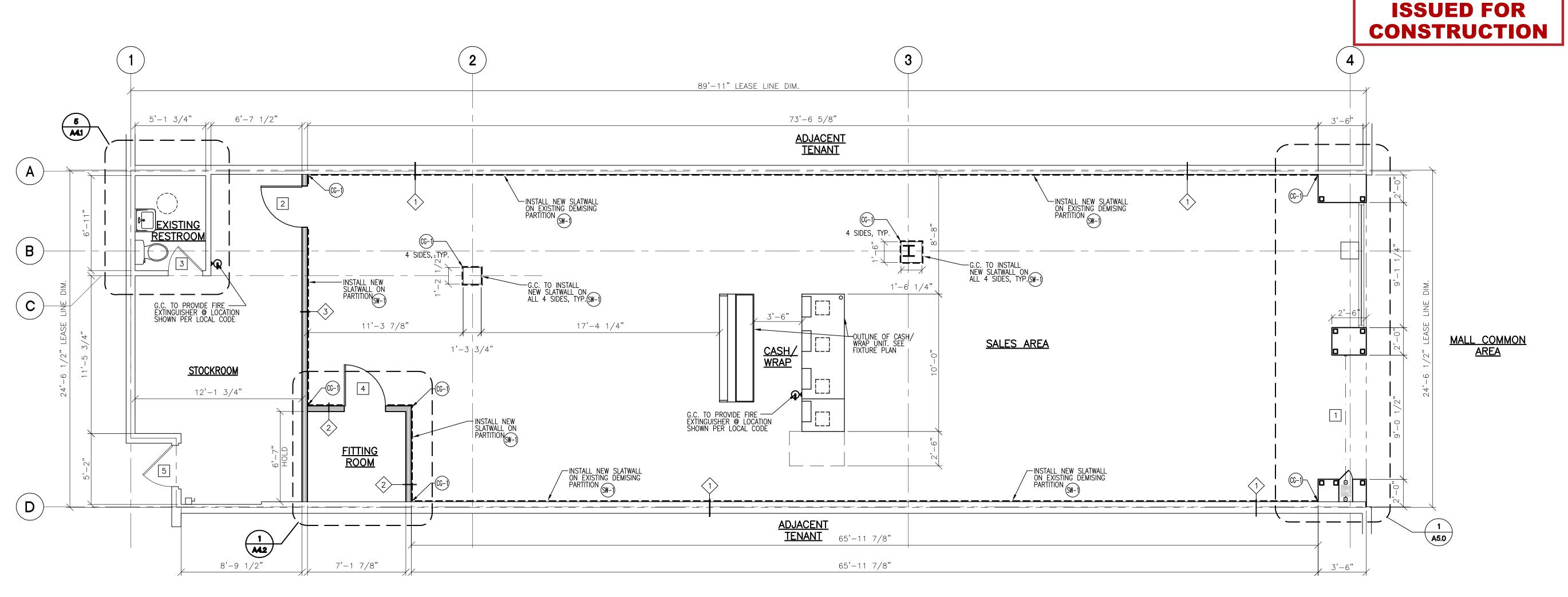
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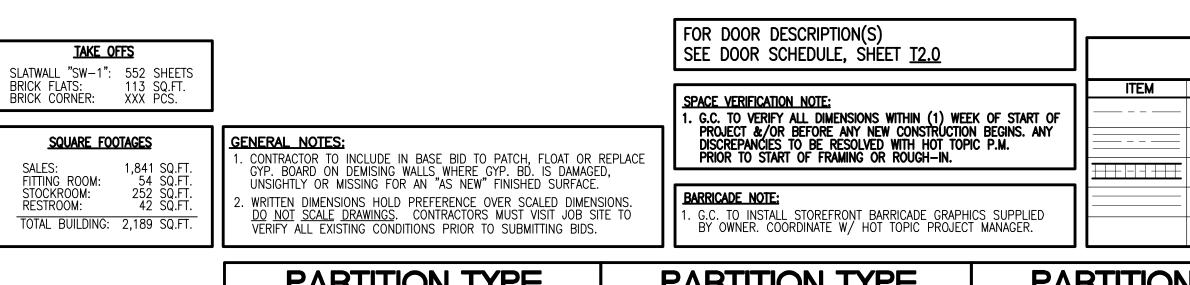
106/ 106/ 106/ 106/

85'-1"









| | WALL PARTIT | TON LE | |
|------|--|---------------|--|
| ITEM | DESCRIPTION | | |
| | LEASE LINE | | NEW FULL HEIGHT PARTITION, MTL. STUDS & FINISH TO CEILING OR DECK |
| | EXISTING DEMISING PARTITION | 7////// | NEW PARTITION, MTL. STUDS AND GYP. BD. STOPS SHORT OF CEILING OR DECK |
| | NEW DEMISING PARTITION - PER MALL CRITERIA | <u> </u> | NEW ONE-HOUR PARTITION |
| | EXISTING PARTITION TO REMAIN | \Diamond | PARTITION TYPE - SEE SHEET A1.0 |
| | | X | DOOR TYPE - SEE SHEET T2.0. |

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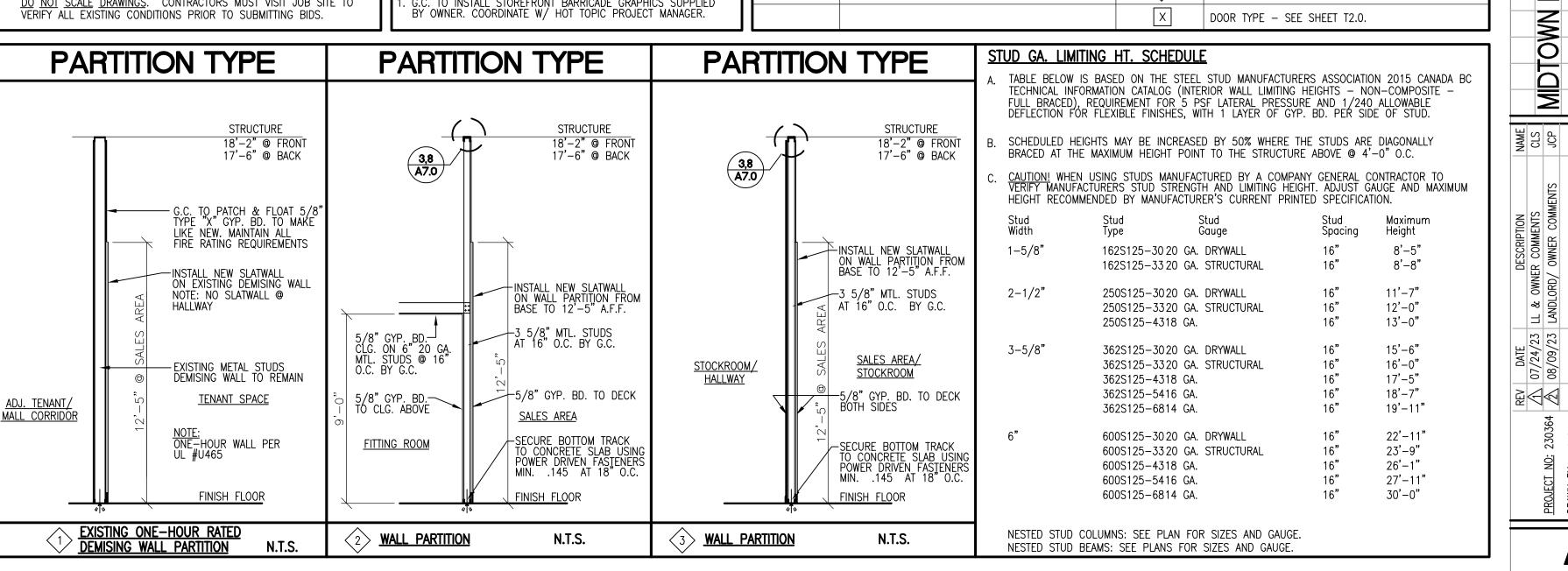
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FLOOR

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201 IST AVENUE S SASKATOON, SK



LANDLORD COMMENT/S:

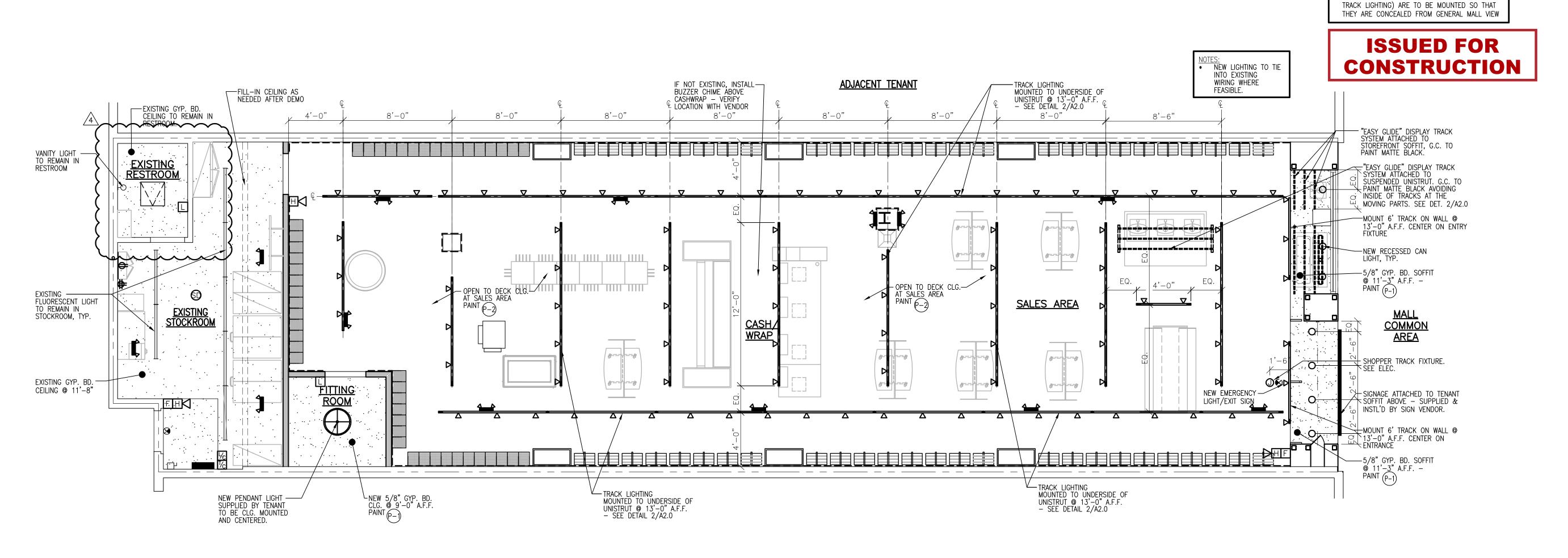
ENSURE TO INCLUDE FLOOR FINISH PLAN IN THE RESUBMISSION INCLUDING ALL MATERIAL SPECIFICATION. ENSURE THE PROPOSED FLOOR FINISH MEETS THE MOST CURRENT DCOF RATING FOR HIGH TRAFFIC

APPLICATION. ALL FLOOR TRANSITIONS ARE TO BE SMOOTH

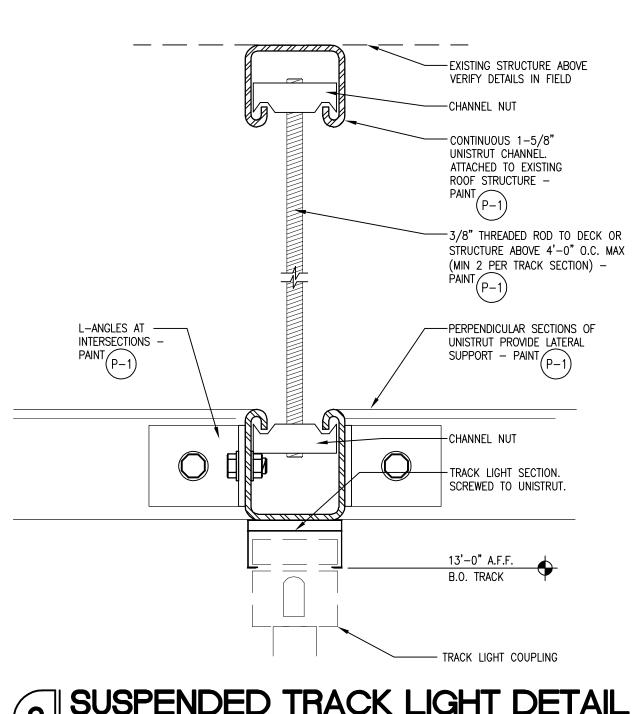
IT IS THE TENANT'S CONSULTANTS RESPONSIBILITY TO ENSURE THE OVERALL STORE DESIGN IS COMPLIANT TO

THE LATEST LOCAL CODE REQUIREMENTS AND

ACCESSIBILITY STANDARDS. ENSURE ALL TENANT'S FIXTURES TO BE DETAILED AS TO NOT DISTURB OR MODIFY ANY EXISTING BASE BUILDING LANDLORD'S COMPONENTS.



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



MECHANICALLY FASTEN TO —— —"EASY GLIDE" DISPLAY TRACK. BOTTOM CHORD OF JOISTS TYP. SEE A2.0 FOR LOCATION. W/UNISTRUT AND BEAM CLAMP - PROVIDE UNISTRUT AND THREADED ROD @ EACH END OF RUN FOR ATTACHMENT TO DECK.

GENERAL CONTRACTOR NOTE:

AV INSTALLATION BY OWNER'S VENDOR. SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

HVAC NOTES:

LANDLORD COMMENT/S:

ENSURE ALL EXIST SIGNS AND LIGHT FIXTURES (II

. G.C. TO TEST THE EXISTING HVAC UNIT IN THE FIRST WEEK OF CONSTRUCTION AND SEND BACK A FULL REPORT TO THE HOT TOPIC PROJECT MANAGER OF ANY REPAIRS ABOVE AND BEYOND THE USUAL SCOPE OF WORK.

2. IN THE EVENT OF A UNIT LEAD TIME THAT CONFLICTS WITH SCHEDULED COMPLETION DATE, G.C. MAY PROPOSE AN ALTERNATE EQUIVALENT UNIT FROM THE FOLLOWING MANUFACTURERS: TRANE, LENNOX, CARRIER OR YORK. CURRENT SPECIFIED UNIT LEAD TIME AND SHOP DRAWINGS FOR PROPOSED ALTERNATE NEED TO BE SUBMITTED TO HO TOPIC PM AND ARCHITECT BY FIRST WEEK OF CONSTRUCTION TO BE CONSIDERED. G.O. WILL BE RESPONSIBLE FOR ANY ASSOCIATED COSTS FOR SHOP DRAWING REVIEW OR REVISED DRAWINGS THEREAFTER.

LIGHTING NOTE:

. FINAL LOCATIONS OF ALL TRACK LIGHTING IN SALES AREA TO BE APPROVED BY HOT TOPIC PROJECT MANAGER. CONTRACTOR TO COORDINATE LOCATIONS WITH FINAL STORE FIXTURE LAYOUT

OPEN TO DECK CEILING NOTES:

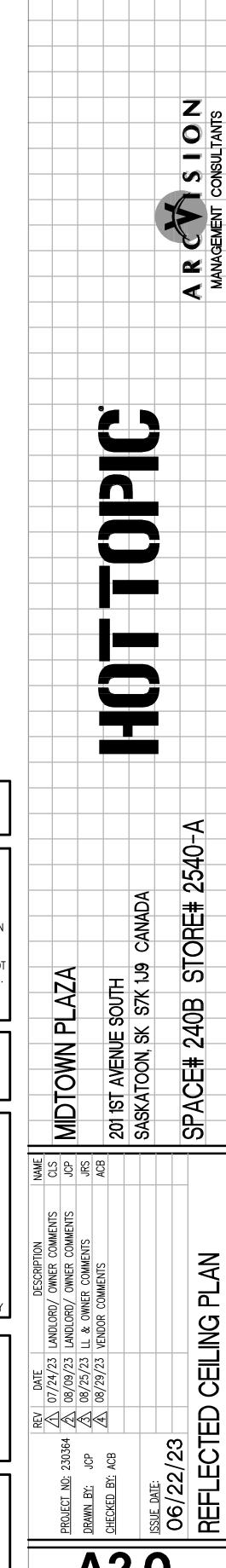
- . ANY EXISTING DUCTWORK IS TO BE RESECURED AS REQUIRED AND IS TO BE CLEANED THOROUGHLY. ANY EXTERIOR INSULATION IS TO BE REMOVED.
- . G.C. TO REMOVE ALL ABANDONED OR UNUSED DUCTWORK, PIPING, CONDUIT, INSULATION, ETC. FROM THE SALES AREA, FITTING ROOMS & STOCKROOM.
- 3. ALL NEW CONDUIT, ETC. TO BE PLACED IN AN ORGANIZED MANNER RUNNING IN STRAIGHT LINES OR 90 DEG. ANGLES. HOLD CONDUIT AS TIGHT AS POSSIBLE TO UNDERSIDE OF EXISTING JOISTS.
- . G.C. TO RESECURE ALL EXISTING EQUIPMENT.
- EXISTING STRUCTURE TO BE CLEANED THOROUGHLY. G.C. TO PAINT "P-1" ALL CEILING ITEMS INCLUDING HVAC DUCTS, HVAC REGISTERS, CONDUITS, HANGERS, SUPPORT BRACING, STRUCTURAL SYSTEM & WALL SURFACES ABOVE 12'-5" A.F.F
- . G.C. TO PROVIDE CONDUIT FOR SPEAKERS WHEN LOW VOLTAGE WIRING IS REQUIRED TO BE IN CONDUIT G.C. TO VERIFY W/ LANDLORD & LOCAL AUTHORITY

REFLECTED CEILING PLAN NOTE:

THE REFLECTED CEILING PLAN SHALL GOVERN ALL CEILING PENETRATION LOCATIONS. MECHANICAL DUCTWORK AND ALL ELECTRICAL CONDUITS SHALL BE RUN TO AVOID CONFLICT WITH THE REFLECTED CEILING PLAN. - G.C. SHALL NOTIFY TENANT UPON THE START OF PROJECT IF EXISTING DUCTWORK, CONDUIT OR OTHER EXISTING SYSTEMS WILL CONFLICT WITH THE PROPOSED REFLECTED CEILING PLAN. NO MODIFICATIONS TO THE REFLECTED CEILING PLAN WILL BE ACCEPTED DUE TO INSTALLATION OF CONTRACTOR PROVIDED SYSTEMS OR EQUIPMENT.

CONTRACTOR'S NOTES:

. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS & DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, TO TENANT REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.



SUSPENDED TRACK LIGHT DETAIL SCALE: 1' - 1'-0'

LANDLORD NOTE/S:

REFLECTED CEILING PLAN & LIGHTING

ALL CORRESPONDING PROPOSED ITEMS.

DISPLAY WINDOWS. ENSURE TO INCLUDE A TROUGH DETAIL.

(SUCH AS 'UNISTRUT') INSTALLED BETWEEN JOISTS.

THE REFLECTED CEILING PLAN SHALL INCLUDE ALL CEILING MOUNTED COMPONENTS SUCH AS

LIGHT FIXTURES, EXIT SIGNS, SPEAKERS AND ETC. ENSURE TO CLEARLY INDICATE THE LOCATION OF ALL

CEILING MOUNTED EQUIPMENTS (EG. SPEAKER, EXIT SIGNS AND ETC.) AND PROVIDE A SCHEDULED FOR

TENANT TO SITE VERIFY & TO ENSURE INTENDED CEILING HEIGHT CAN BE ACHIEVED.

ALL LIGHTING FIXTURES MUST BE RECESSED AND NOT VISIBLE FROM MALL VIEW INCLUDING THE

ALL SUSPENDED LIGHTING MUST BE AT LEAST 8'-0" A.F.F. TO UNDERSIDE OF THE LIGHT FIXTURE

EXIST SIGNS ARE TO BE MOUNTED SO THAT THEY ARE NOT VISIBLE FROM GENERAL MALL VIEW.

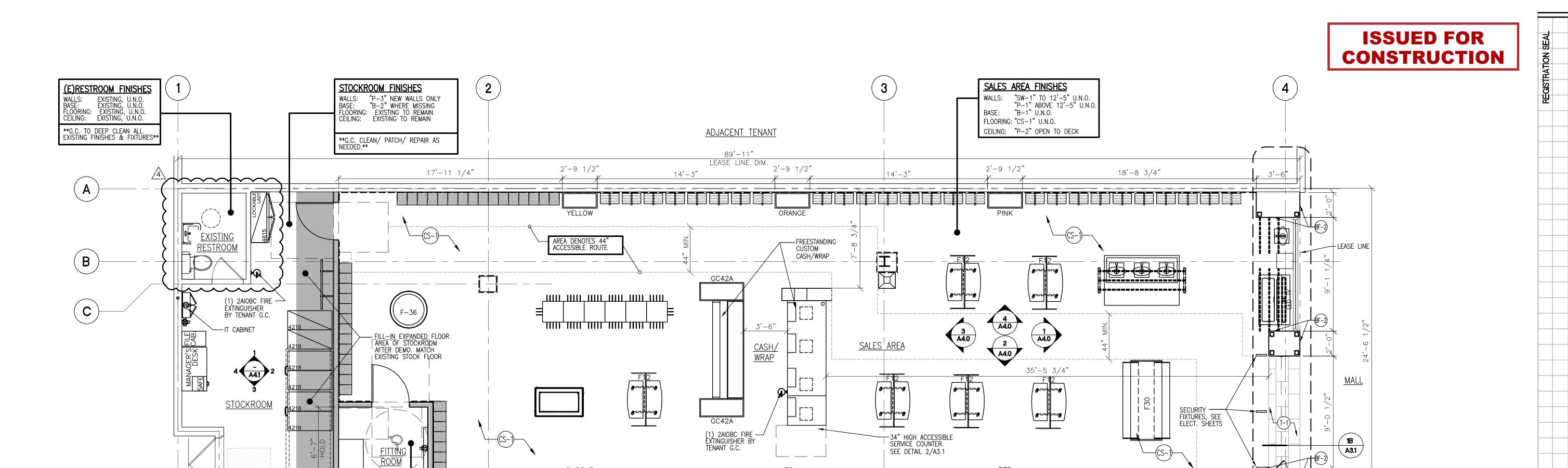
UNDER NO CIRCUMSTANCES SHALL HANGERS BE ATTACHED TO ANY BASE BUILDING DECK, ROOF

PANS OR LANDLORD'S EQUIPMENT. GENERAL CONTRACTOR SHALL USE ONLY STRUCTURAL CHANNELS

- THE CEILING IN THE PREMISES SHALL BE CONSTRUCTED FROM DRYWALL, PLASTER OR OTHER

APPROVED MATERIALS IN THE CEILING SPACE. NO COMBUSTIBLE MATERIALS MAY BE USED IN THE

CEILING SPACE. OPEN CEILING CONCEPTS AND ACOUSTICAL CEILING TILES WILL NOT BE PERMITTED.



2'-9 1/2"

14'-3"

LANDLORD COMMENT/S:

D

ENSURE TENANT FINISH FLOOR LEVEL IS SET FLUSH TO THE ADJACENT MAIN FINISH FLOOR LEVEL ACROSS ENTIRE LENGTH OF STORE ENTRANCE. NO TENANT FLOOR FINISH SHALL EXTEND BEYOND TENANT CLOSURE LINE.

CLEARANCE

NEW ELECTRICAL EQUIPMENT. SEE ELEC. SHEETS

FITTING ROOM FINISHES

WALLS: "WC-2", U.N.O.
BASE: "B-1/P-1", U.N.O.
FLOORING: "CS-1", U.N.O.
CEILING: "P-1", U.N.O.

7'-1 3/4'

10'-4 1/2"

2'-9 1/2"

PROVIDE DETAIL DRAWINGS FOR THE TENANT FLOOR AND THE LANDLORD'S FLOOR TRANSITION. IN THE CASE THERE IS A FLOOR LEVEL CHANGE BETWEEN COMMON MALL

AREA AND TENANT SPACE, TENANT IS RESPONSIBLE TO BRING THEIR FLOOR FINISHES TO MEET LANDLORD'S FLOOR FINISHES AT THE SAME LEVEL. THE MALL FLOOR WIIL NOT BE ALTERED.

TENANT FINISHES ARE TO MEET ADJACENT TENANT'S FINISHES AT TERMINATION. SITE CONDITIONS ARE TO BE VERIFIED BY TENANT TO ENSURE INTENDED DESIGN IS ACHIEVABLE.

TENANT'S GC MUST VERIFY THE SITE CONDITIONS PRIOR TO FINALIZING DRAWINGS TO ENSURE THE DESIGN INTENT CAN BE EXECUTED. ENSURE TENANT'S GC TO PROPOSE QUALITY & DURABLE FLOOR FINISH THROUGHOUT THE STORE DESIGN AS SET OUT IN THE TENANT DESIGN CRITERIA. VINYL FLOORING IS NOT ACCEPTABLE. REFER TO CRITERIA FOR LANDLORD APPROVED MATERIAL FINISH. ENSURE TO INCLUDE WARRANTY, SLIP RESISTANCE AND SPECIFICATION OF PROPOSED FLOOR FINISH.

LANDLORD NOTE/S:

- THE FLOOR FINISHES PLAN SHALL INCLUDE THE INTENDED FLOOR FINISHES AND CLEARLY INDICATE THE LOCATION OF THE TRANSITION STRIP. ENSURE TO

INCLUDE A DETAIL DRAWINGS OF THE PROPOSED TRANSITION. - ENSURE TENANT FINISH FLOOR LEVEL IS SET FLUSH TO THE ADJACENT MAIN FINISH FLOOR LEVEL ACROSS ENTIRE LENGTH OF STORE ENTRANCE. NO TENANT FLOOR FINISH SHALL EXTEND BEYOND TENANT CLOSURE LINE. PROVIDE DETAIL DRAWINGS FOR THE TENANT FLOOR AND THE LANDLORD'S FLOOR

TRANSITION. - ENSURE APPROPRIATE SCHLUTER TRANSITION STRIP IS SPECIFIED BETWEEN EACH FLOOR MATERIAL CHANGE TO ENSURE A SMOOTH PATH OF TRAVEL. REDUCER STRIPS ARE NOT PERMITTED.

- IN THE CASE THERE IS A FLOOR LEVEL CHANGE BETWEEN COMMON MALL AREA AND TENANT SPACE, TENANT IS RESPONSIBLE TO BRING THEIR FLOOR FINISHES TO MEET LANDLORD'S FLOOR FINISHES AT THE SAME LEVEL. THE MALL FLOOR WILL NOT BE ALTERED.

 TENANT FINISHES ARE TO MEET ADJACENT TENANT'S FINISHES AT TERMINATION. SITE CONDITIONS ARE TO BE VERIFIED BY TENANT TO ENSURE

INTENDED DESIGN IS ACHIEVABLE. - TENANT MUST VERIFY THE SITE CONDITIONS PRIOR TO FINALIZING DRAWINGS TO ENSURE THE DESIGN INTENT CAN BE EXECUTED.

- ENSURE TENANT TO PROPOSE QUALITY & DURABLE FLOOR FINISH THROUGHOUT THE STORE DESIGN AND WITHIN THE DESIGN CONTROL ZONE (10'-0" FROM LEASELINE) AS SET OUT IN THE TENANT DESIGN CRITERIA. CERAMIC TILE IS NOT PERMITTED FOR FLOORING APPLICATION. ENSURE TO PROPOSE A STRONGER AND LESS ABRASIVE MATERIAL (I.E. PORCELAIN TILE) THROUGHOUT SALES AREA.

FIXTURE / FLOOR FINISH PLAN

89'-0 3/4" LEASE LINE

ADJACENT TENANT

14'-3"

| | FIXT | TURE | LEGEND | *SHELVING NOTE: |
|-------|----------|----------------|----------------------------|---|
| NAME | QUANTITY | SYMBOL | DESCRIPTION | 1. VENDOR TO PROVIDE (10) EXTRA SHELVES AND BRACKETS, G.C. TO |
| - | 1 | • | BLACK MANNEQUIN W/ STAND | SET ASIDE FOR STORE'S FUTURE USE. VERIFY LOCATION WITH HOT TOPIC P.M. |
| F64 | 6 | | NEW LED WALL DIVIDER | Les o Notes |
| F12 | 6 | | NEW OPEN 2-WAY | *G.C. NOTE: 1. G.C. TO REVIEW BILL OF LADING UPON RECEIPT OF ALL SHIPMENTS. |
| F61 | 1 | | NEW BODY JEWELRY CASE | DAMAGES OR SHORTAGES ARE TO BE INDICATED AT RECEIPT, OR WITH |
| IMPUL | 1 | | NEW IMPULSE FIXTURE | 24 HOURS. FAILURE TO DO SO WILL REQUIRE G.C. TO CONTACT VENI LISTED ABOVE AND PURCHASE SAID ITEMS AT G.C. COST. |
| COSFX | 0 | \blacksquare | NEW COSMETIC FIXTURE | 2. ALL OVERAGES OF TENANT SUPPLIED ITEMS ARE TO BE STORED IN STOCKROOM LOFT |
| - | 1 | LED TV | NEW LED TV | 3. G.C. TO PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY CODE. G.C. |
| F60 | 1 | | NEW PIN AND BUTTON FIXTURE | ALSO PROVIDE THE FIRST SERVICE TAG WITH DATE PRIOR TO TURNOV |
| F30 | 1 | | NEW FEATURE DISPLAY TABLE | 4. GC TO REPORT ANY MISSING PIECES OF VENDOR SUPPLIED SHELVING WITHIN 48 HOURS OF RECEIVING ORDER, FAILURE TO DO SO WILL |
| F23 | 6 | | NEW ACCESSORY | RESULT IN G.C. HAVE TO REPLACE AT OWN EXPENSE. |
| F40 | 1 | | NEW STOREFRONT SIGN HOLDER | 5. G.C. TO BOLT SAFE TO FLOOR UNDERNEATH THE MANAGER'S DESK. COORDINATE WITH HOT TOPIC PROJECT MANAGER. |
| F65 | 1 | | NEW DICELAY TABLE W/DICED | 6. G.C. TO ASSEMBLE ALL FIXTURES. |
| F66 | 1 | 9 9 9 | NEW DISPLAY TABLE W/RISER | |
| CWJ | 1 | | MEM CASH MADA | CONTRACTOR'S NOTES: |
| CWH | 1 | | NEW CASH WRAP | 1. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. <u>DO NOT SCALE DRAWINGS</u> . CONTRACTORS MUST VISIT JOB SITE TO |
| F36S | 1 | <u>O</u> | NEW 36" ROUNDER | VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTIN BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY |
| F4 | - | | NEW DICED W/DLAGY CHELVEC | INTERFERE WITH THE PROPER EXECUTION OF, TO TENANT REPRESENT, REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE STAF |
| F63 | _ | | NEW RISER W/BLACK SHELVES | OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CO COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION. |
| F62 | 1 | | NEW TV DISPLAY FIXTURE | 2. FIXTURE PLAN, FLOOR PLAN, INTERIOR ELEVATION SHEET, REFLECTED |
| GC42A | 2 | | NEW GLASS STICKER CASE | CEILING PLAN, DEMOLITION PLAN ARE OF THIS SPECIFIC STORE. DETA SHEETS ARE GENERAL AND MAY OR MAY NOT BE STORE SPECIFIC. |

2'-9 1/2"

HELVING NOTE: ENDOR TO PROVIDE (10) EXTRA SHELVES AND BRACKETS. G.C. TO

18'-8 3/4"

G.C. TO REVIEW BILL OF LADING UPON RECEIPT OF ALL SHIPMENTS. ANY DAMAGES OR SHORTAGES ARE TO BE INDICATED AT RECEIPT, OR WITHIN 24 HOURS. FAILURE TO DO SO WILL REQUIRE G.C. TO CONTACT VENDORS LISTED ABOVE AND PURCHASE SAID ITEMS AT G.C. COST.

S.C. TO PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY CODE. G.C. TO ALSO PROVIDE THE FIRST SERVICE TAG WITH DATE PRIOR TO TURNOVER. GC TO REPORT ANY MISSING PIECES OF VENDOR SUPPLIED SHELVING WITHIN 48 HOURS OF RECEIVING ORDER, FAILURE TO DO SO WILL RESULT IN G.C. HAVE TO REPLACE AT OWN EXPENSE.

<u> NTRACTOR'S NOTES:</u>

RITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. O NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO ERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING IDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY TERFERE WITH THE PROPER EXECUTION OF, TO TENANT REPRESENTATIVE. EPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION. TIXTURE PLAN, FLOOR PLAN, INTERIOR ELEVATION SHEET, REFLECTED CEILING PLAN, DEMOLITION PLAN ARE OF THIS SPECIFIC STORE. DETAIL SHEETS ARE GENERAL AND MAY OR MAY NOT BE STORE SPECIFIC.

FLOOR PREPARATION NOTE:

POLISHED CONCRETE FLOOR SYSTEM I. G.C. IS RESPONSIBLE FOR REMOVAL OF ALL EXISTING FLOOR COVERING.

2. OPEN SLAB SURFACE:

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A. AS REQUIRED TO PROVIDE A UNIFORM FINAL POLISH OR REMOVAL OF EXISTING FLOOR COATINGS, BEGIN GRINDING WITH A 40 GRIT METAL BOND. IF HEAVIER GRIND IS NEEDED, QUESTMARK WILL PROVIDE PICTURES AND PRICING PRIOR TO COMPLETING.

B. PROGRESSIVE EDGE GRINDING WILL BE NECESSARY WITH 1/2" OF ALL VERTICAL ABUTMENTS, INCLUDING WALLS, CASES, COLUMNS, POSTS AND RACKING SYSTEMS. C. JOINT FILLER AND SPALL REPAIRS SHALL BE FLUSH WITH SURFACE AFTER

GRINDING AND POLISHING STEPS. ADDITIONAL PASSES ALONG CURLED JOINTS MAY BE NECESSARY TO REMOVE JOINT FILLER CHATTER. REMOVE METAL-BONDED DIAMOND SCRATCHES BY GRINDING WITH PROGRESSIVELY

FINER METAL-BONDED DIAMONDS, STARTING WITH 80 GRIT METAL BOND DIAMOND AND FINISHING WITH 150-GRIT METAL DIAMOND. . FLOOR POLISHING:

A. START FLOOR POLISHING USING 100-GRIT RESIN BONDED DIAMONDS. B. REMOVE 100-GRIT RESIN-BONDED DIAMOND SCRATCHES BY GRINDING WITH

200-GRIT RESIN BONDED DIAMONDS. C. REMOVE 200-GRIT RESIN-BONDED DIAMOND SCRATCHES BY GRINDING WITH

400-GRIT RESIN BONDED DIAMONDS.

D. REMOVE 400-GRIT RESIN-BONDED DIAMOND SCRATCHES BY GRINDING WITH 800-GRIT RESIN BONDED DIAMONDS. E. REMOVE 800-GRIT RESIN-BONDED DIAMOND SCRATCHES BY GRINDING WITH

1500-GRIT RESIN BONDED DIAMONDS. CONCRETE DYE A. IN-BETWEEN 400 GRIT RESIN BONDED DIAMONDS AND 800 GRIT RESIN

BONDED DIAMONDS, APPLY TWO (2) COATS OF CONCRETE DYE PER MANUFACTURE'S RECOMMENDATIONS.

CONCRETE DENSIFIER A. AFTER CONCRETE DYE IS APPLIED, APPLY CONCRETE DENSIFIER PER

MANUFACTURER'S RECOMMENDATIONS. HIGH SPEED BURNISH:

OPERATOR DURING INSTALLATION.

A. AFTER LAST APPLICATION OF DENSIFIER, BURNISH SURFACE. B. BURNISH AT A SLOW MOVEMENT PACE USING HIGH SPEED MACHINE WITH 1500 OR 3000 GRIT DIAMOND IMPREGNATED PADS AS REQUIRED TO ACHIEVE SPECIFIED GLOSS REQUIREMENTS.

C. BURNISH WITH SEVERAL PASSES. MAKE EACH PROGRESSIVE PASS AT 90 DEGREES FROM PREVIOUS PASS. D. BURNISHING, PAD TYPE, AND PACE OF FORWARD MOVEMENT SHALL COMBINE TO DEVELOP A MINIMUM FLOOR SURFACE TEMPERATURE OF 91-DEGREES F DIRECTLY BELOW THE BURNISHING PAD AS CONTINUOUSLY MEASURED BY THE

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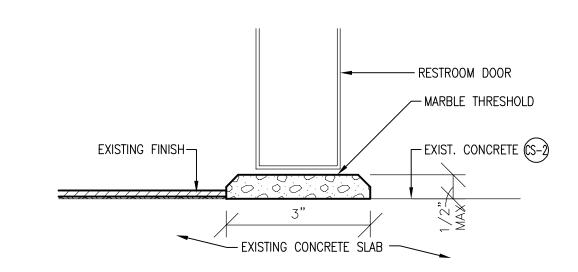
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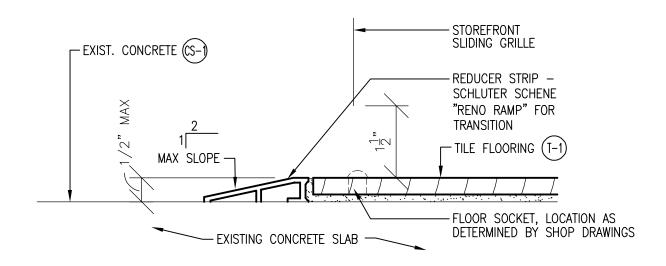
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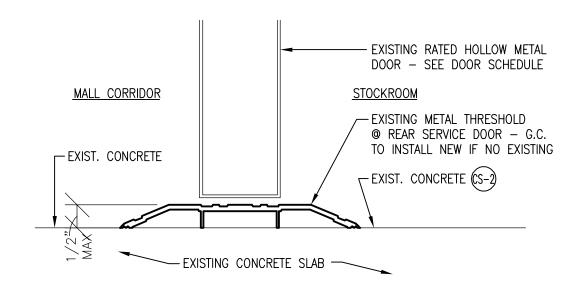
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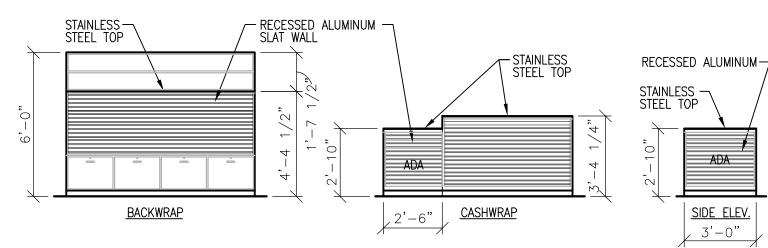
1A VINYL TILE/CONC. DTL. SCALE: 6' - 1'-0'



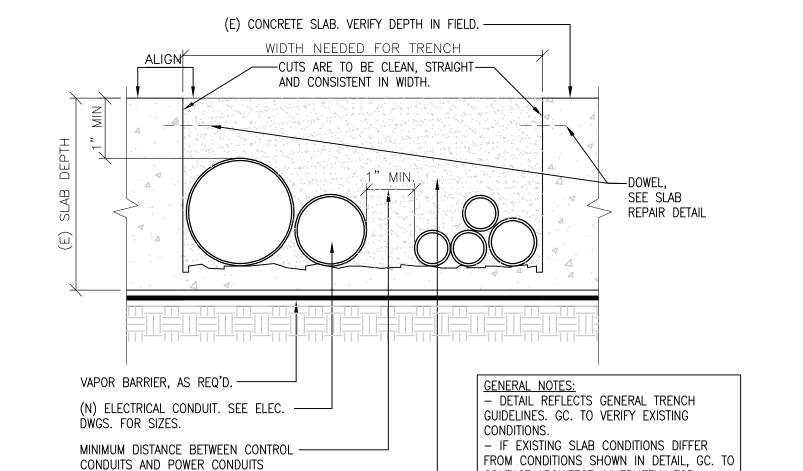
MALL FLOORING/CONCRETE DTL. SCALE: 6" - 1"-0"



MALL FLOORING/CONC. DTL. SCALE: 6' - 1'-0'



2 CASHWRAP ELEVATION
SCALE: 1/4' - 1'-0'



BACK FILL TRENCH WITH (N) CONC. POUR -

PER SPECIFICATIONS. SEAL TRENCH LOCATION

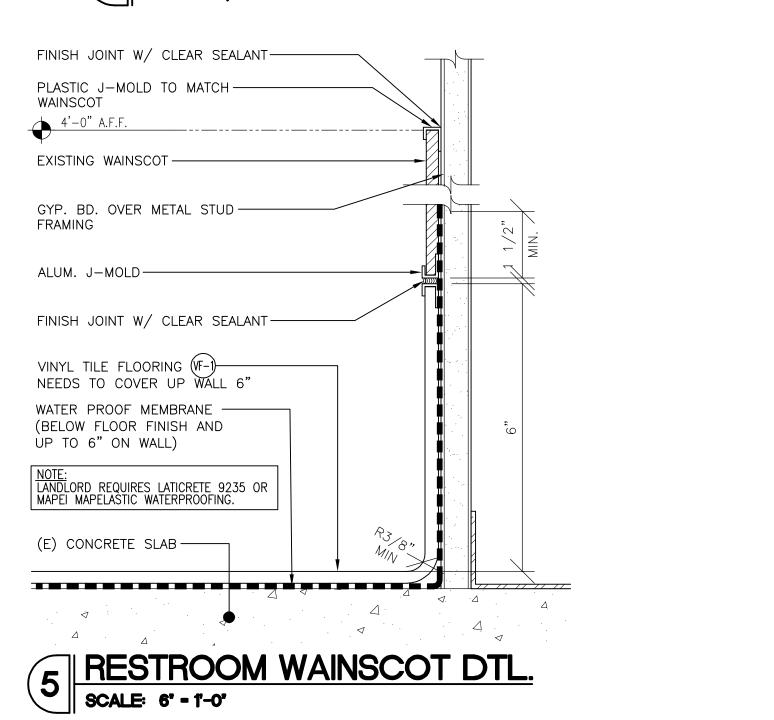
AND LEVEL TO MATCH (E) ADJACENT FINISH. 3 TRENCHING DTL. ATCH BACK NOTES: LL SALES FLOOR TRENCHES: SCALE: 6" = 1'-0" <u>TS_RAPIDSET</u> PRIMER: RAPID SET TXP MATERIAL: RAPID SET TRU SELF-LEVELING, GRAY ARDEX (SPEC PRIMER IS EP2000) PRIMER: ARDEX P 51 POUR BACK CONCRETE MIX FROM GCS. #3 @18" OC W/4" MIN — ÉPOXY SET INTÓ EXG. SLAB EDGE 12"L MIN. EXG. SLAB #3 @18" OC EACH WAY-MIN AT INFILL AREA VAPOR BARRIER, AS REQUIRED. LAP ----AND TAPE SEAL PER MFR RECOMMENDATIONS TO REPAIR AND MAKE WATER VAPOR TIGHT

CONTACT ARCHITECT IMMEDIATELY FOR

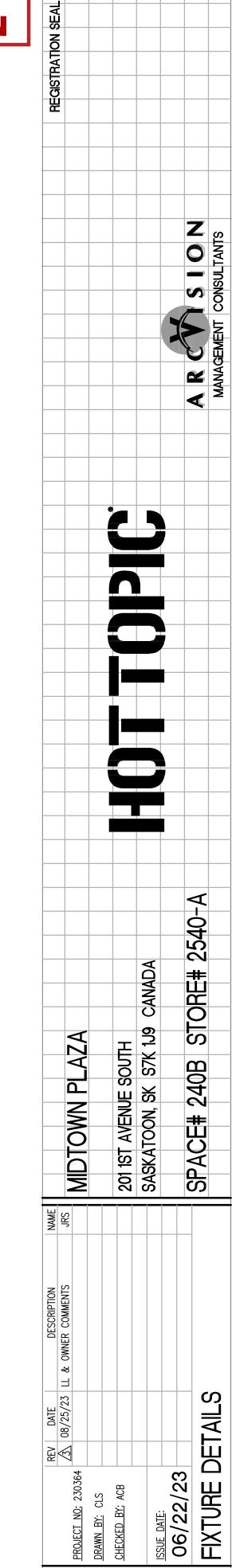
- SEE ELEC. DWGS & SPECS.

DIRECTION.

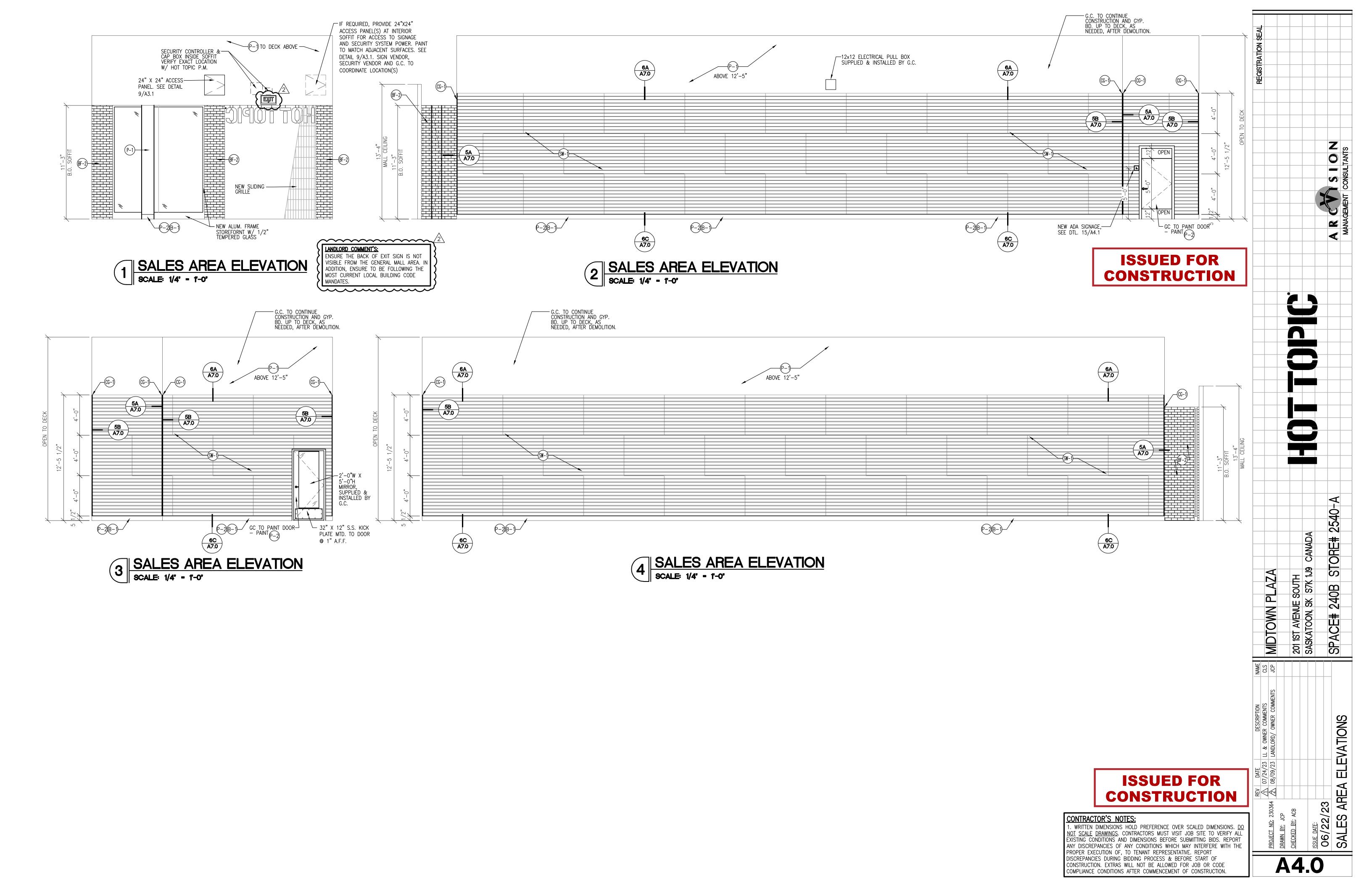
4 SLAB REPAIR DETAIL SCALE: 3/4" - 1'-0"



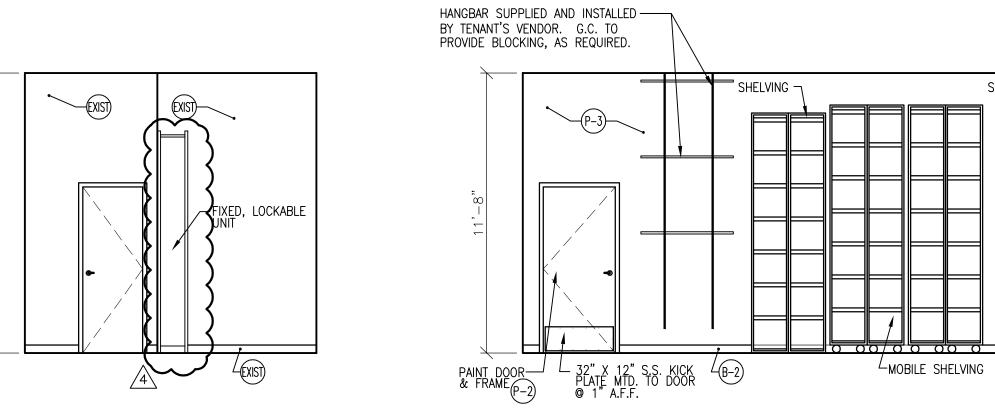
ISSUED FOR CONSTRUCTION

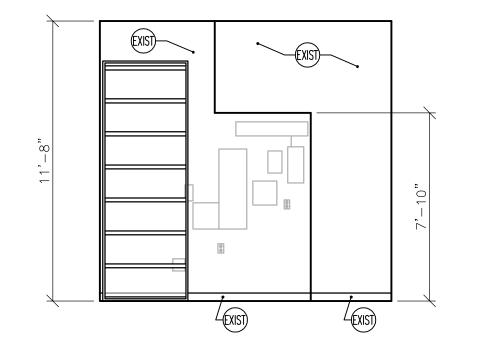


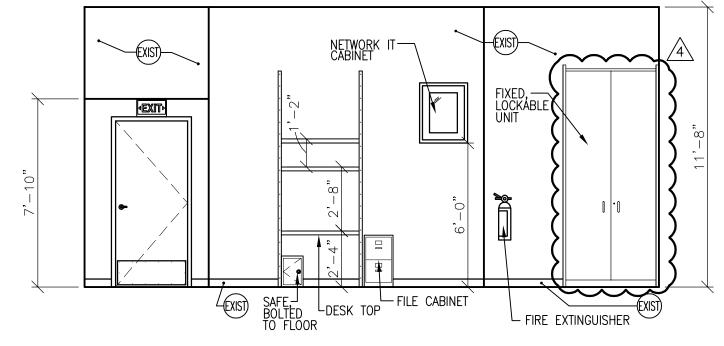
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ISSUED FOR CONSTRUCTION







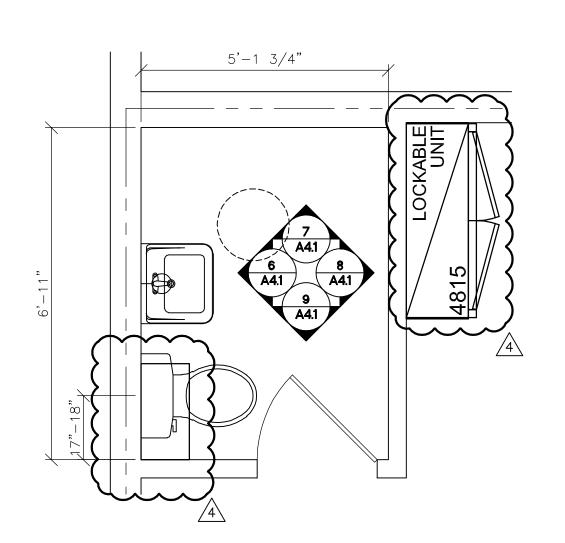
STOCKROOM ELEVATION
SCALE: 1/4' - 1'-0'

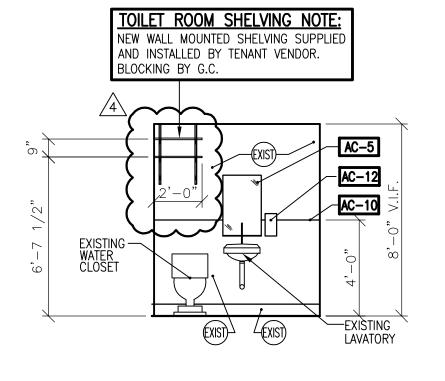
2 STOCKROOM ELEVATION SCALE: 1/4" - 1'-0"

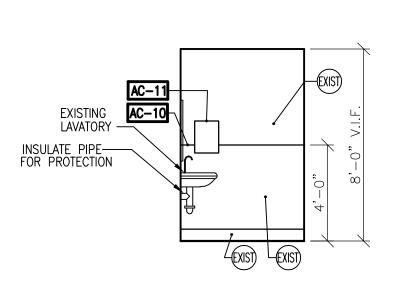
3 STOCKROOM ELEVATION SCALE: 1/4" - 1'-0"

NOTE:
ALL HOT, COLD & WASTE
LINES SHALL HAVE AN
INSULATION KIT INSTALLED.

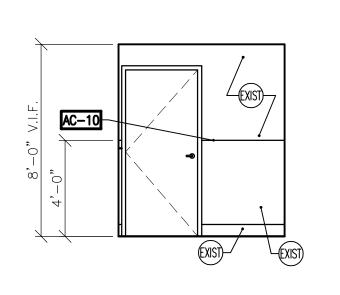
4 STOCKROOM ELEVATION SCALE: 1/4' - 1'-0'

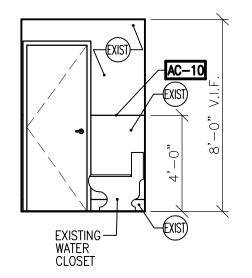






SHELVING -





6 (E) RESTROOM ELEV. SCALE: 1/4" - 1'-0"

(E) RESTROOM ELEV.

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

(E) RESTROOM ELEV.

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

(E) RESTROOM ELEV.

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

(E) RESTROOM ELEV.

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

5 RESTROOM PLAN
SCALE: 1/2" - 1'-0"

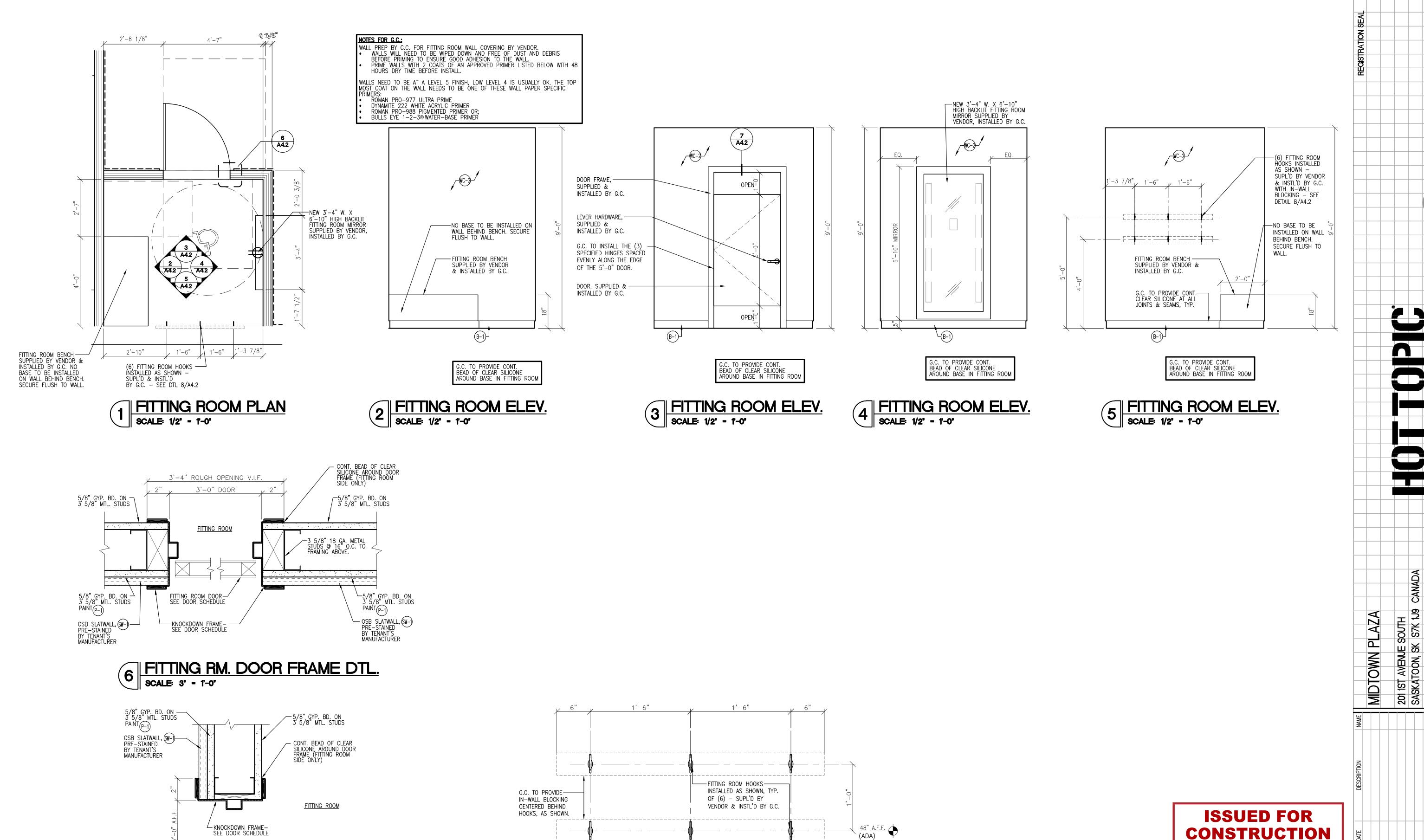
CONTRACTOR'S NOTES:

. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, TO TENANT REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.

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| <u> </u> | ACB | VENDOR COMMENTS | 08/29/23 | \blacktriangleleft | PROJECT NO: 230364 |
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| | NAME | DESCRIPTION | KEV DAIE | Z Z | |

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8 FITTING ROOM HOOKS DETAIL SCALE: 11/2" - 1'-0"

7 FITTING RM. DR. HEADER DTL. scale: 3' - 1-0'

CONSTRUCTION

CONTRACTOR'S NOTES:

1. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS.

DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO

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BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY

INTERFERE WITH THE PROPER EXECUTION OF, TO TENANT REPRESENTATIVE.

REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START

OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE

COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION. 2. FIXTURE PLAN, FLOOR PLAN, INTERIOR ELEVATION SHEET, REFLECTED CEILING PLAN, DEMOLITION PLAN ARE OF THIS SPECIFIC STORE. DETAIL

SHEETS ARE GENERAL AND MAY OR MAY NOT BE STORE SPECIFIC.

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TYPICAL FITTING

LANDLORD NOTE/S:

SIGNAGE

SUBMIT ALL GRAPHICS & ARTWORK FOR REVIEW PRIOR TO FABRICATION.

SUBMIT COMPLETE SHOP DRAWINGS & MOUNTING/CONNECTION DETAILS OF STOREFRONT SIGNAGE. ENSURE TO CONFORM WITH THE LOCAL CODE REQUIREMENTS.
 SIGNAGE MUST CONFORM TO CSA AND UL STANDARD. SUBMIT COMPLETE SIGNAGE SHOP DRAWINGS FOR REVIEW. COMPLETE SIGNAGE FINISHES AND SPECIFICATION MUST BE INDICATED ON DRAWINGS. ALL EXPOSED FACES AND RETURNS MUST BE SHOP FINISHED. PROVIDE ACTUAL FINISHES SAMPLE OF ROPOSED SIGNAGE FOR REVIEW.

PROMOTIONAL GRAPHICS

- TENANT IS TO PROVIDE FULL DETAILS ON ALL TENANT'S PROPOSED PROMOTIONAL PERMANENT OR TEMPORARY SIGNAGE/GRAPHICS. ALL SIGNAGE/GRAPHICS (PERMANENT OR TEMPORARY) MUST BE CONTAINED WITHIN A FRAMED GLASS DISPLAY WINDOW THAT FORMS AS PART OF THE OVERALL STOREFRONT DESIGN.

 NO MERCHANDISE OR SIGNAGE MAY SURPASS THE LEASELINE AS INDICATED ON THE T.O.D. UNLESS OTHERWISE NOTED. ALL SIGNAGE ARE TO BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO FABRICATION.

- NO ADVERTISING, DESCRIPTIVE OR LISTING OF GOODS/SERVICES/SLOGANS ARE PERMITTED.

STOREFRONT FINISHES

— STOREFRONT MATERIALS & SUBSTRATE MUST BE FIRE RETARDANT & MEET LOCAL CODE REQUIREMENTS.

- ENSURE TO SPECIFY DURABLE & QUALITY MATERIALS & FINISHES THROUGHOUT AS SET OUT IN THE TENANT DESIGN CRITERIA.

 NO ELEMENTS FROM STOREFRONT DESIGN CAN BE FASTENED/CONNECTED/MOUNTED OR BRACED TO EXISTING BASE BUILDING LANDLORD'S COMPONENTS.

-ALL GLAZED STOREFRONTS SHALL CONFORM TO CODE REQUIREMENTS & CURRENT CAN/CSA STANDARDS. DRAWINGS MUST BE REVIEWED & STAMPED BY P.ENG LICENSED & PRACTICED IN THE PROVINCE OF SASKATCHEWAN.

- USE OF ANY COMBUSTIBLE MATERIALS SHALL BE LIMITED TO & MEET THE CRITERIA SET OUT WITHIN THE APPLICABLE PROVISIONS UNDER THE BUILDING CODE FOR NINE (9) METERS WIDE PUBLIC CORRIDOR. THE COMBUSTIBLE MATERIALS IS ALLOWED TO BE WITHIN 25MM MAX. THICKNESS AND MUST BE MOUNTED ON A NON-COMBUSTIBLE CONSTRUCTION.

STOREFRONT CLOSURE

- ENSURE SLIDING GRILLE TRACK AND DOORS ARE TO BE RECESSED AND INSTALLED FLUSH TO THE UNDERSIDE OF TENANT'S BULKHEAD.

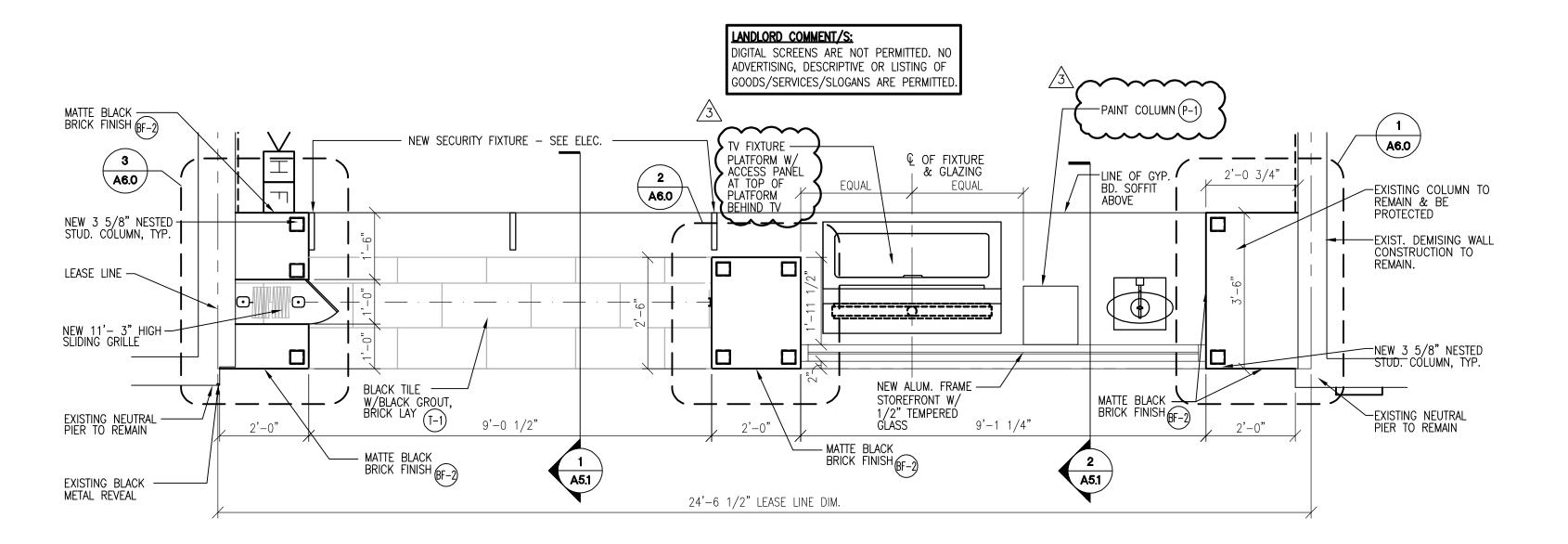
- ALL STOREFRONT CONSTRUCTION IS TO BE SELF-SUPPORTING FROM THE FLOOR AND

ATTACHED TO LANDLORD'S STRUCTURE ABOVE FOR LATERAL BRACING ONLY.

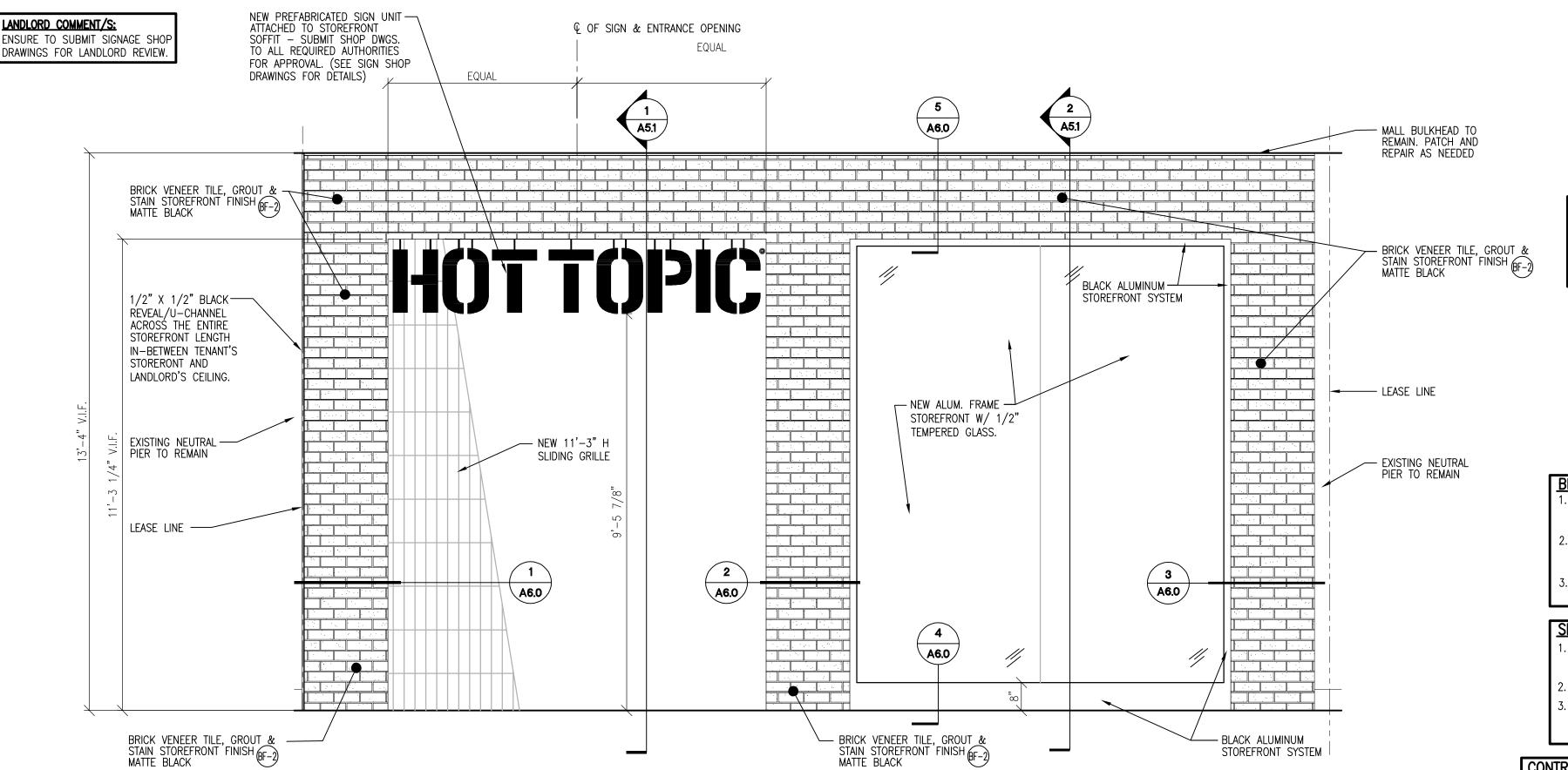
— SLIDING GRILLE ENCLOSURE MUST HAVE A CONCEALED DOOR WITH NO VISIBLE HARDWARE AND MINIMAL SEAMS.

- SPRING LOADED FLOOR AND CEILING LOCKING PINS MUST BE USED AS WELL AS ALL FLOOR SOCKETS ARE TO BE DUST PROOF.

ISSUED FOR CONSTRUCTION



1 STOREFRONT PLAN SCALE: 1/2' - 1'-0'



LANDLORD COMMENT/S:

ALL GLAZED STOREFRONTS SHALL CONFORM TO CODI REQUIREMENTS & CURRENT CAN/CSA STANDARDS. DRAWINGS MUST BE REVIEWED & STAMPED BY P.ENG LICENSED & PRACTICED IN THE PROVINCE OF SASKATCHEWAN.

RICK NOTE: G.C. TO STAIN ALL BRICK VENEER AFTER INSTALLATION BRICK STAIN & GROUT IS SUPPLIED & INSTALLED BY G.C.

. STAIN SPECIFICATION: "BEHR" - DARK COAL #STC-35, SEMI-TRANSPARENT CONCRETE STAIN - MODEL #85001

GROUT SPECIFICATION: POLYBLEND "#60 CHARCOAL" SANDED

SIGNAGE NOTE:

G.C. TO REFER TO APPROVED SIGN SHOP DRAWINGS FOR FINAL PLACEMENT PRIOR TO STOREFRONT CONSTRUCTION.

. SIGNAGE UNDER SEPARATE PERMIT BY SIGN VENDOR
SIGN INSTALLER IS NOT ALLOWED TO USE HAMMER DRILLS

3. SIGN INSTALLER IS <u>NOT ALLOWED</u> TO USE HAMMER DRILLS TO DRILL THROUGH BRICK FOR ANCHORAGE OF SIGN. USE DIAMOND TIP DRILL BITS <u>ONLY</u>. CONTRACTOR'S NOTE:

CONTRACTOR'S NOTE:

WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS.

DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO

VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING

BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY

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REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START

OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE

COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.

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| VFACE# 24 | _ | STOREFRONT PLAN + ELEVATION | IT PL/ | 8 | STOREFR |
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| JASKATOUN, SK | | | | | ISSUE DATE: |
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| 201 1ST AVENUE | | | | | CHECKED BY: ACB |
| | | | | | |
| | JRS | LL & OWNER COMMENTS | 08/25/23 | $ \lozenge $ | DRAWN BY: CLS |
| | JCP | PROJECT NO: 230364 $ \Delta\rangle$ 08/09/23 LANDLORD/ OWNER COMMENTS | 08/09/23 | \triangleleft | PROJECT NO: 230364 |
| | | LL & OWNER COMMENTS | 07/24/23 | \triangleleft | |
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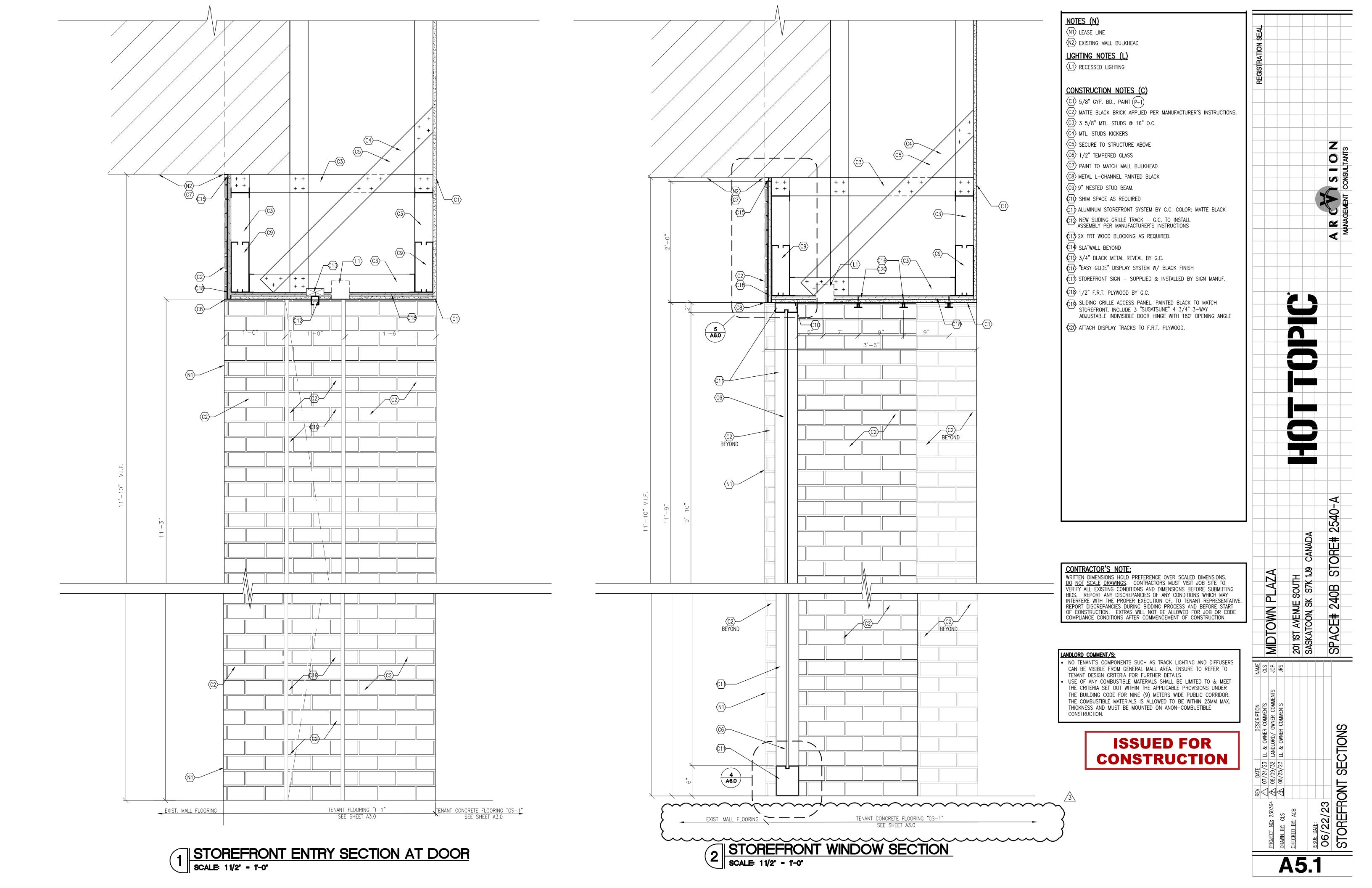
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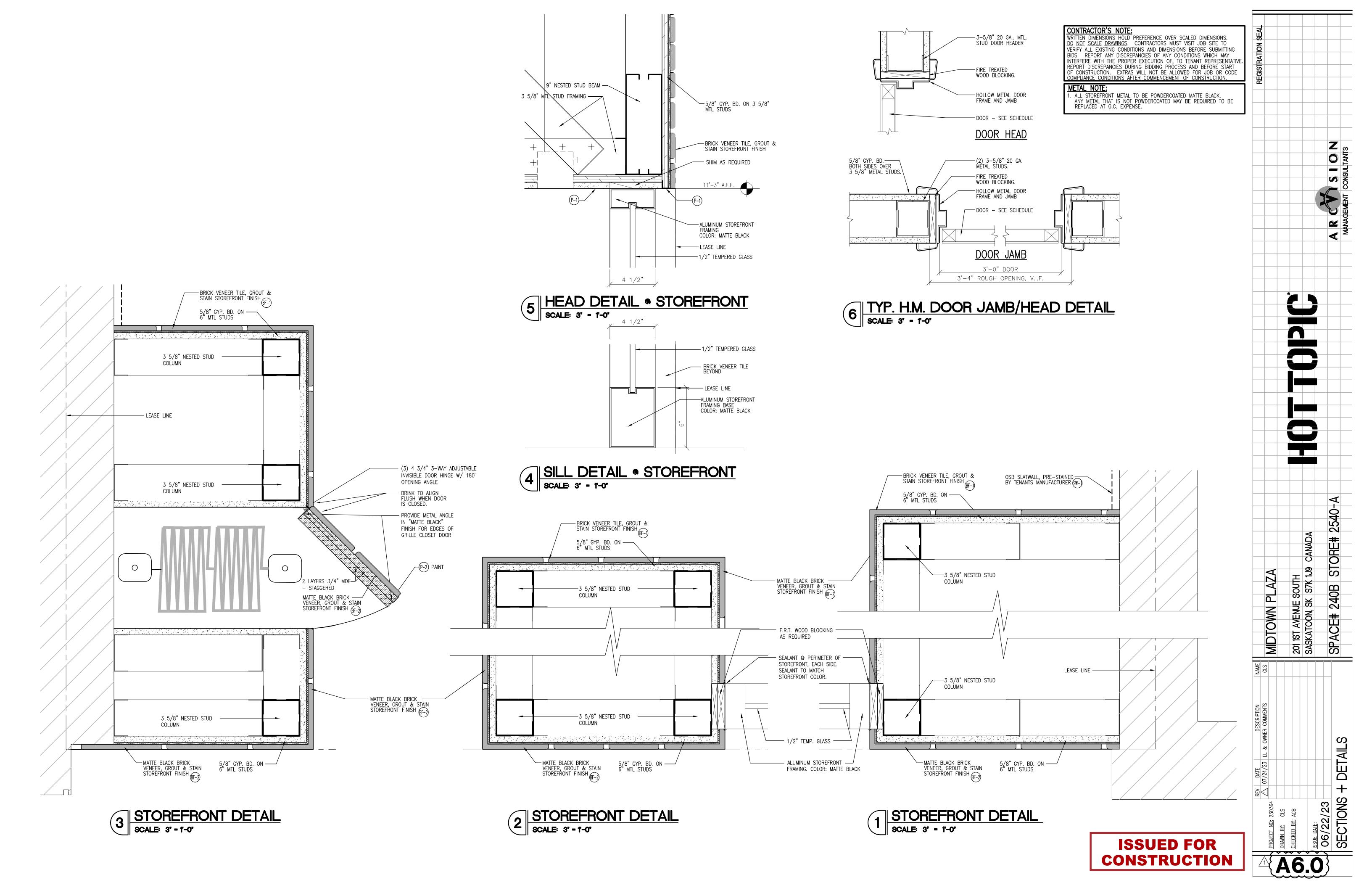
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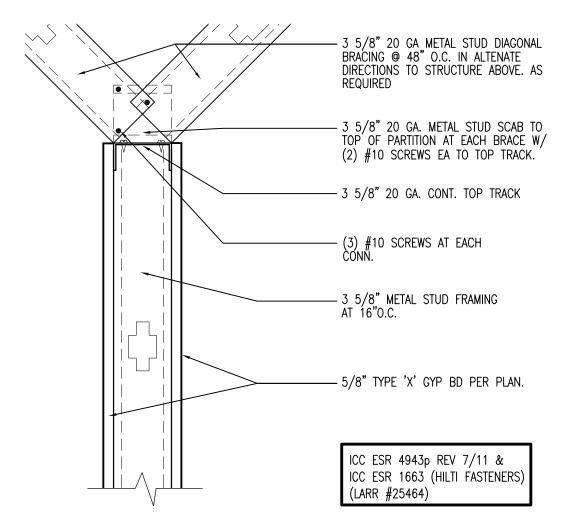
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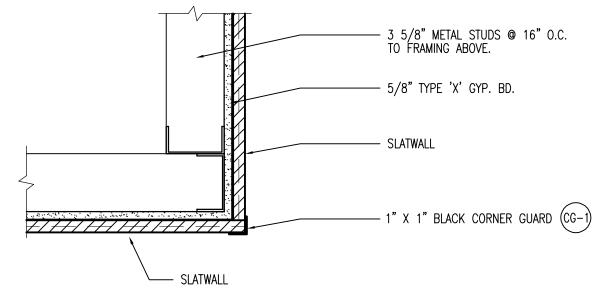
2 STOREFRONT ELEVATION
SCALE: 1/2" - 1'-0"



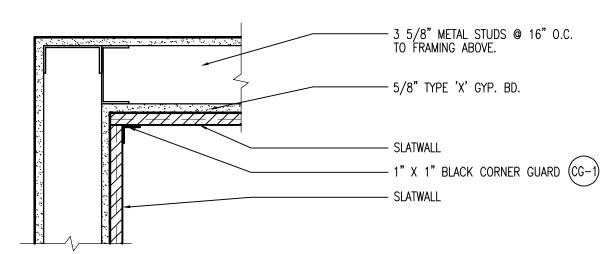




TYP. INTERIOR PARTITION AT TOP SCALE: 1" = 1'-0"



SLATWALL CORNER DETAILS SCALE: 11/2' = 1'-0' **OUTSIDE CORNER**



SCALE: 11/2' - 1'-0' INSIDE CORNER

SLATWALL INSTALLATION INSTRUCTIONS:

OO NOT DAMAGE OR WASTE SLATWALL. ADDITIONAL SHEETS OF SLATWALL WILL BE AT THE EXPENSE OF THE TENANT'S G.C. TENANT'S G.C. O PROVIDE QUANTITY TAKEOFF AT BID AWARD.

G.C. TO OFF SET VERTICAL SEAMS IN SLATWALL BY 4'-0" @ INSTALL LOCATIONS OVER 8'-0" IN LENGTH.

APPROVED ADHESIVES:
"MARLITE" #C-375 CONSTRUCTION MASTIC "MACCO" LIQUID NAILS #LN601

"3M" CONSTRUCTION MASTIC

ADHESIVE APPLICATION:
ALWAYS APPLY SLATWALL ADHESIVE TO THE BACK OF THE PANEL. BE SURE THE EXG SUBWALL IS POROUS, STRAIGHT, CLEAN & DRY SUCH AS DRYWALL OR PWD. EA 5 GALLON CAN OF ADHESIVE WILL COVER 300 SQ FT. ADHESIVE IS EASIEST TO SPREAD AT 70°F. PLANKS MUST BE INSTALLED WHILE ADHESIVE IS FRESH (WITHIN 10 MINUTES). ADHESIVE ON PLANK FACE SHOULD BE REMOVED PROMPTLY WITH MINERAL SPIRITS -APPLY ADHESIVE TO THE ENTIRE BACK OF PLANK USING NOTCHED SPREADER % COVERAGE OVER ENTIRE BACK OF PLANK EXCEPT APX 1' AT PROVIDED. (100 EDGES). USE THE NOTCHES IN THE SPREADER TO GET THE EXACT DEPTH OF ADHESIVE. AVOID TOO HEAVY A COAT. O ASSURE PROPER RIDGES WHEN SPREADING, KEEP NOTCHES OF SPREADER IN PAIL OF WATER WHEN NOT IN USE.

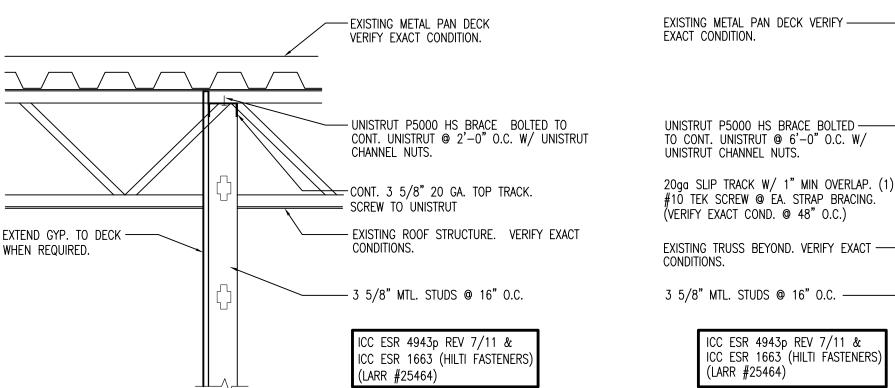
HINT: POURING A LAYER OF WATER ON TOP OF SLATWALL C—375 IN THE CAN KEEPS ADHESIVE FRESH, REDUCES SOLVENT ODOR, EXTENDS OPEN TIME AND AIDS IN CLEANING THE SPREADER.

COHESIVE TECHNIQUE: FOR FASTER BONDING, USE C-375 AND THE FOLLOWING COHESIVE TECHNIQUE TO ENSURE TROUBLE-FREE INSTALLATION. -APPLY THIN COAT OF C-375 ADHESIVE TO THE WALL USING THE FLAT EDGE OF THE SPREADER, AND ALLOW TO SKIN OVER (APPROXIMATELY 10-15 MINUTES). -APPLY ADHESIVE TO TO PANEL BACK. —APPLY PLANK TO THE WALL. FAN THE PLANK BY PRESSING AND PULLING IT FORM THE WALL. THIS RELEASES THE ADHESIVE SOLVENTS AND ALLOWS THE ADHESIVE TO SET UP MORE QUICKLY. PRESS THE PLANK FIRMLY TO THE WALL FROM TOP TO BOTTOM. CHECK TO SEE THAT IT IS PLUMB.

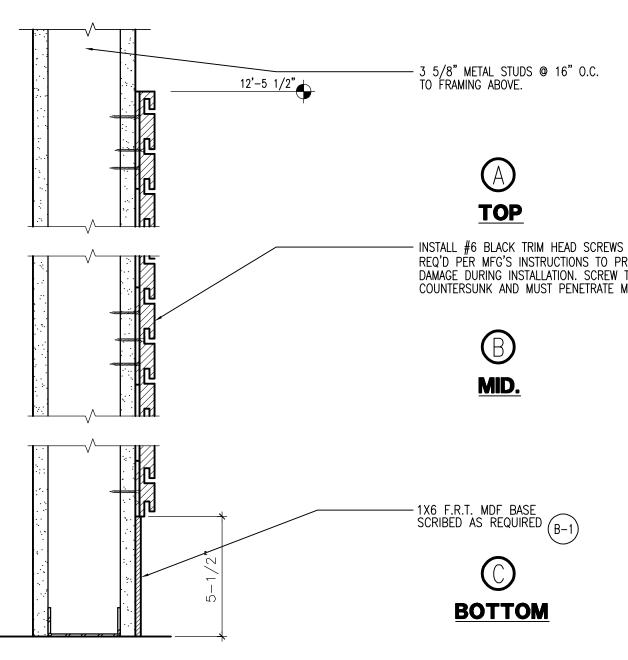
CARTRIDGE ADHESIVE:IF USING CARTRIDGES C-376, YOU MUST APPLY IN A CARTRIDGE ADHESIVE: SERPENTINE PATTERN. APPLY A 1/4" BEAD AROUND THE ENTIRE PERIMETER AND THEN SNAKE DOWN THE PANEL EVERY 4" TO 6". COVERAGE: 30 LINEAR FEET PER 10 oz. CARTRIDGE.

PROVIDE SOME ADDED STRENGTH TO THE PANELS - INSTALLING DIRECTLY ONTO STUDS SHOULD BE FOR APPLICATIONS THAT DO NOT REQUIRE MAXIMUM LOAD CARRYING CAPACITIES. PANEL ADHESIVE IS RECOMMENDED FOR MORE PERMANENT INSTALLATIONS. DRYWALL SCREWS OF THE PROPER LENGTH WORK THE BEST. DRIVE THE SCREWS THROUGH THE BACKS OF THE GROOVE (BE CAREFUL NOT TO DAMAGE THE GROOVE LIPS). FOR MAXIMUM LOAD LEVEL CAPACITIES, SCREWS SHOULD BE DRIVEN THROUGH EVERY OTHER GROOVE (9 INCHES APART VERTICALLY) AND AT EACH STUD, OR FURRING STRIP (RECOMMENDED AT 16" OC). CUTTING TO SIZE SHOULD BE DONE WITH THE BLADE ENTERING THE GROOVED SIDE OF THE PANEL. THIS WILL HELP AVOID "CHIP-OUT". FOLLÓW THE MOUNTING INSTRUCTIONS SHOWN ON THE BACK OF THE PANELS.

SEE STUD GA. LIMITING HT. SCHEDULE VERIFY THAT THE SHOWN METHOD OF ATTACHMENT IS ACCEPTABLE WITH THE ON SHEET A1 FOR ADDITIONAL INFO. ON-SITE COORDINATOR. IF NOT, CONTACT ARCHITECT FOR ALTERNATE DETAIL



2 SOFFIT CONNECTION | SCALE: 1" = 1'-0"



TOP OF FULL HEIGHT. INT. PARTITION SCALE: 1" - 1'-0"

ICC ESR 4943p REV 7/11 &

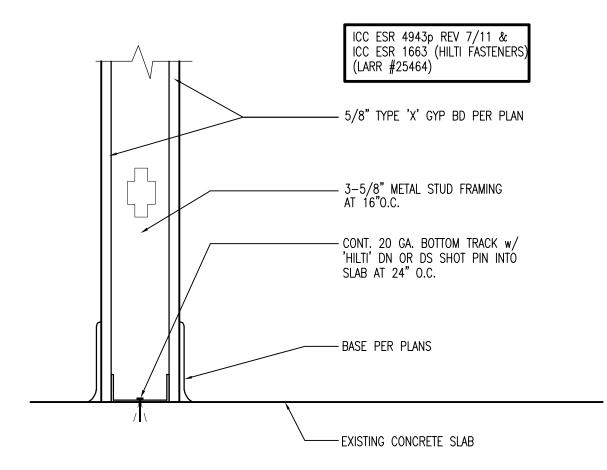
(LARR #25464)

ICC ESR 1663 (HILTI FASTENERS

SLATWALL INSTALLATION NOTE: THE OWNER SUPPLIED SLATWALL CAN ONLY BE INSTALLED IN ONE DIRECTION. FAILURE TO FOLLOW THE INSTALLATION DETAILS WILL RESULT IN THE GC BEING RESPONSIBLE FOR THE COMPLETE REMOVAL AND REPLACEMENT OF ALL SLATWALL INCORRECTLY INSTALLED, INCLUDING ANY NECESSARY WALL REPAIR AND PAINT. TIME EXTENSIONS WILL NOT BE GIVEN FOR INCORRECTLY INSTALLED SLATWALL.

- EXTEND GYP. TO DECK

WHEN REQUIRED.



4 BOTTOM OF INTERIOR PARTITION SCALE: 11/2' - 1'-0'

VERIFY THAT THE SHOWN METHOD OF ATTACHMENT IS ACCEPTABLE WITH THE ON-SITE COORDINATOR. IF NOT, CONTACT ARCHITECT FOR ALTERNATE DETAIL.

ISSUED FOR CONSTRUCTION

ICC ESR 4943p REV 7/11 & ICC ESR 1663 (HILTI FASTENERS) (LARR #25464)`

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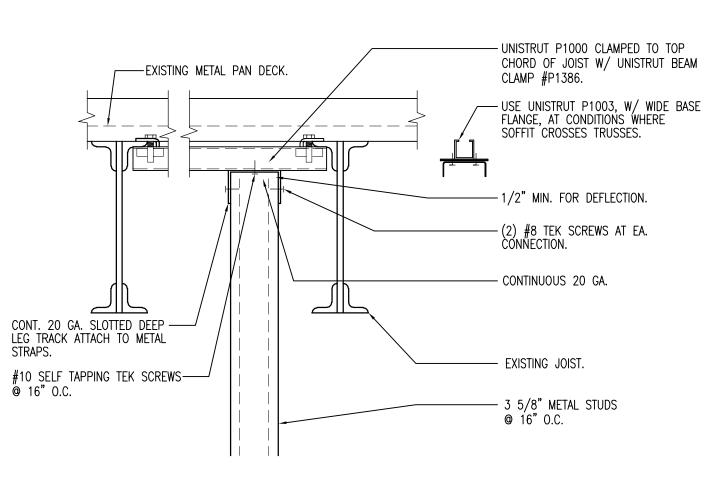
DETAIL

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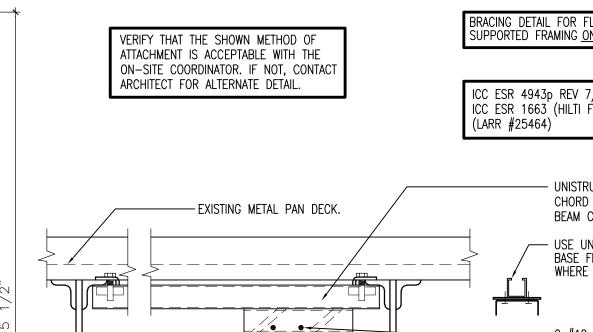
201 1ST AVENUE (SASKATOON, SK

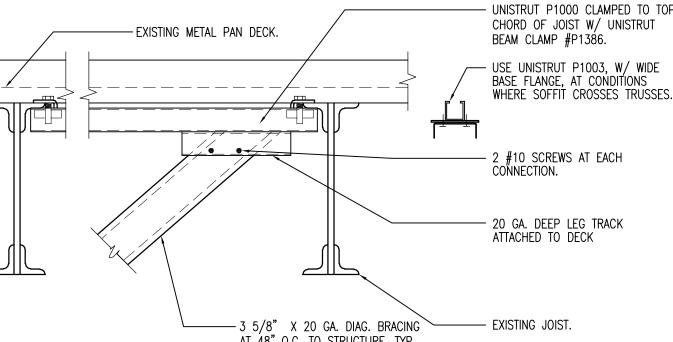
MIDTOWN

n



8 TOP OF INT. WALL TO STRUCTURE SCALE: 3' - 1'-0'





BRACING DETAIL FOR FLOO SUPPORTED FRAMING <u>ONLY</u> ICC ESR 4943p REV 7/11 & ICC ESR 1663 (HILTI FASTENERS

AT 48" O.C. TO STRUCTURE, TYP.

TYP. DIAG. BRACING CONN. TO DECK SCALE: 1'-1'-0'

TYPICAL SLATWALL ELEVATION SCALE: 1/2" - 1'-0"

INSTALL #6 BLACK TRIM HEAD SCREWS AS REQ'D PËR MFG'S INSTRUCTIONS TO PREVENT DAMAGE DURING INSTALLATION. SCREW TO BE COUNTERSUNK AND MUST PENETRATE METAL STUD. SLATWALL SEAM DETAIL INSTALL #6 BLACK TRIM HEAD SCREWS AS —

REQ'D PER MFG'S INSTRUCTIONS TO PREVENT

1X6 F.R.T. MDF BASE SCRIBED AS REQUIRED (B-1)

NOT USED SCALE: 3' - 1'-0' 6 A7.0

DAMAGE DURING INSTALLATION. SCREW TO BE COUNTERSUNK AND MUST PENETRATE METAL STUD. 1/4" BEAD @ — 4"-6" O.C. TYPICAL 1/4" PERIMETER OF-HALF-GROOVE INSERT CONNECTOR INSTALLED ON ALL HORIZONTAL SEAMS, TYP. - SCREW LOCATION PER MFR'S CRITERIA -HALF-GROOVE INSERT CONNECTOR INSTALLED
ON ALL HORIZONTAL
SEAMS, TYP. **ADHESIVE PATTERN**

REUSE OF EXISTING EQUIPMENT

- EXISTING AIR CONDITIONING EQUIPMENT SHALL BE REUSED AS INDICATED ON THE DRAWINGS. POINTS OF SERVICE SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- 2. INSPECT AND LUBRICATE BEARINGS AND SHAFTS AS PER MANUFACTURERS REQUIREMENTS.
- 3. THOROUGHLY CLEAN INTERIOR OF UNIT.
- 4. INSPECT AND MAINTAIN ALL CONTROLS FOR UNIT. REPLACE AS REQUIRED.
- 5. CONTRACTOR MAY CLEAN AND REUSE EXISTING DUCTWORK, SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES AND THERMOSTAT IF THEY ARE IN GOOD CONDITION AND MATCH THE SIZE AND SPECIFICATIONS OF WHAT IS CALLED OUT ON THESE CONSTRUCTION DOCUMENTS.
- 6. CONTRACTOR SHALL PROVIDE NEW DUCTWORK, SUPPLY DIFFUSERS AND RETURN GRILLS AS NECESSARY TO SATISFY THE INTENT OF THESE DRAWINGS.
- 7. ENTIRE HVAC SYSTEM SHALL CONFORM TO THE EXISTING BUILDING CONSTRUCTION AND ALL APPLICABLE STATE AND LOCAL CODES AND ALL LANDLORD CRITERIA.
- 8. THE MECHANICAL CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS AND SERVICES AT THE JOB SITE.
- 9. ALL WORK SHALL BE SCHEDULED SO AS NOT TO INTERRUPT THE NORMAL OPERATION OF OTHER CONTRACTORS.
- 10. REUSE EXISTING THERMOSTATS. ENSURE PROPER WORKING CONDITIONS. RELOCATE AS SHOWN.
- 11. ALL WORK, EQUIPMENT AND ACCESSORIES TO BRING EXISTING SYSTEM TO GOOD WORKING CONDITION SHALL BE COVERED UNDER CONTRACTOR'S ORIGINAL BID AND AT NOT ADDITIONAL EXPENSE. CONTRACTOR SHALL VERIFY ALL ON SITE CONDITIONS PRIOR TO BID

LANDLORD COMMENTS

- 1. THE LANDLORD REQUIRES ALL VAV BOXES TO BE TIED INTO THE MALL BUILDING AUTOMATION SYSTEM (BAS). CONFIRM WITH LANDLORD IF THIS IS ALREADY CONNECTED TO THE BAS. IF NOT, THE TENANT IS RESPONSIBLE TO HIRE THE LANDLORD'S CONTROLS CONTRACTOR TO DO SO, AT TENANT GC'S EXPENSE.
- 2. ALL FIRE PROTECTION WORK MUST BE CARRIED OUT BY A LANDLORD APPROVED SPRINKLER CONTRACTOR.
- 3. TENANT MUST SUBMIT A COMPLETE SET OF AS-BUILT DRAWINGS AND FINAL CERTIFICATE OF APPROVAL FROM THE BUILDING DEPARTMENT TO THE LANDLORD UPON PROJECT COMPLETION.
- 4. RESPONSIBILITY FOR DESIGN CODE COMPLIANCE AND COORDINATION WITH OTHER TRADES REMAIN WITH THE TENANT'S CONSULTANT AND TENANT'S GC.
- 5. DOCUMENTS ARE REVIEWED FOR THE SOLE PURPOSE OF COORDINATION WITH THE BASE BUILDING MECHANICAL SYSTEM AND LANDLORD'S REQUIREMENTS.

OTF:

THE OWNER RESERVES THE RIGHT TO CHECK CONSTRUCTION COMPLIANCE WITH PLANS AND SPECIFICATIONS. SHOULD THE OWNER FIND CORRECTIVE WORK TO BE NECESSARY, HE WILL NOTIFY CONTRACTOR 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 CONTRACTOR. IF WORK IS REQUIRED BY OWNER 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, CONTRACTOR SHALL BE DIRECTED BY OWNER, TO ADDRESS THIS WORK IN A TIMELY MANNER. IF IT BECOMES EVIDENT THAT THE CONTRACTOR CAN NOT ACCOMPLISH THE TASK, THEN AFTER 72 HOURS OF WRITTEN NOTICE, THE OWNER MAY AT HIS DISCRETION TAKE OVER SUCH WORK AND BACKCHARGE THE CONTRACTOR FOR ANY CORRECTIVE WORK THAT WAS REQUIRED DUE TO LACK OF PERFORMANCE, WORKMANSHIP AND/OR ADHERENCE TO PLANS AND SPECIFICATIONS.

MECHANICAL CONTRACTOR'S NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD OR TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

INSTALLATION ACCEPTANCE MAY BE SUBJECT TO CONSTRUCTION REVIEW BY AN INDEPENDENT AIR CONDITIONING FIRM.

GC IS TO TEST THE EXISTING HVAC UNIT THE FIRST WEEK OF CONSTRUCTION AND SEND BACK A FULL REPORT TO HT/BL PM OF ANY REPAIRS ABOVE AND BEYOND ORIGINAL SCOPE OF WORK

LANDLORD CONTRACTOR IS RESPONSIBLE TO MAINTAIN HVAC SYSTEMS SERVING RENTABLE PREMISES AT TENANT GC'S EXPENSE. COORDINATE WITH LANDLORD PRIOR BID TO ANY WORK REQUIRED

HVAC SYMBOLS LEGEND

SUPPLY AIR DIFFUSER

SD SMOKE DETECTOR

RAG RETURN AIR CRIL

RETURN AIR GRILLE

O.A. OUTDOOR AIR

R.A. RETURN AIR

S.A. SUPPLY AIR

TE TOILET EXHAUST

M MOTORIZED DAMPER

F.D. FIRE DAMPER

F.C. FLEXIBLE CONNECTION

S.E. SMOKE EXHAUST

MOTORIZED DAMPER

S.E. SMOKE EXHAUST

SMOKE DETECTION DEVICE

AIR DEVICE TYPE

AIR VOLUME IN

CUBIC FEET/MINUTE (CFM)

DAMPER

SPRINKLER HEAD

P.O.C. POINT OF CONNECTION

AIR DEVICE SCHEDULE \ominus

| | | | -1100 | | | _/ | |
|--------------|------|---------------------|--------------|--------------|--------------|-------|-------|
| PLAN MARK | QTY. | *TITUS MODEL NO. | FACE SIZE | NECK SIZE | FLEX SIZE | TYPE | NOTES |
| Α | 1 | ТМА | 12"x12" | 6"ø | 6"ø | DIFF. | 1,2,3 |
| | | | | | | | |

NOTES:

* OR APPROVED EQUAL

- DIFFUSERS TO HAVE 4-WAY THROW UNLESS NOTED
 PROVIDE TMR FRAME FOR GYPSUM BOARD ALLOWING USE AS ACCESS PANEL
 PROVIDE & INSTALL MANUAL VOLUME DAMPER
- DUCT MOUNTED

 WALL/SURFACE MOUNTED. PAINT TO MATCH WALL.
- ,

THERMOSTAT

(E) EXISTING

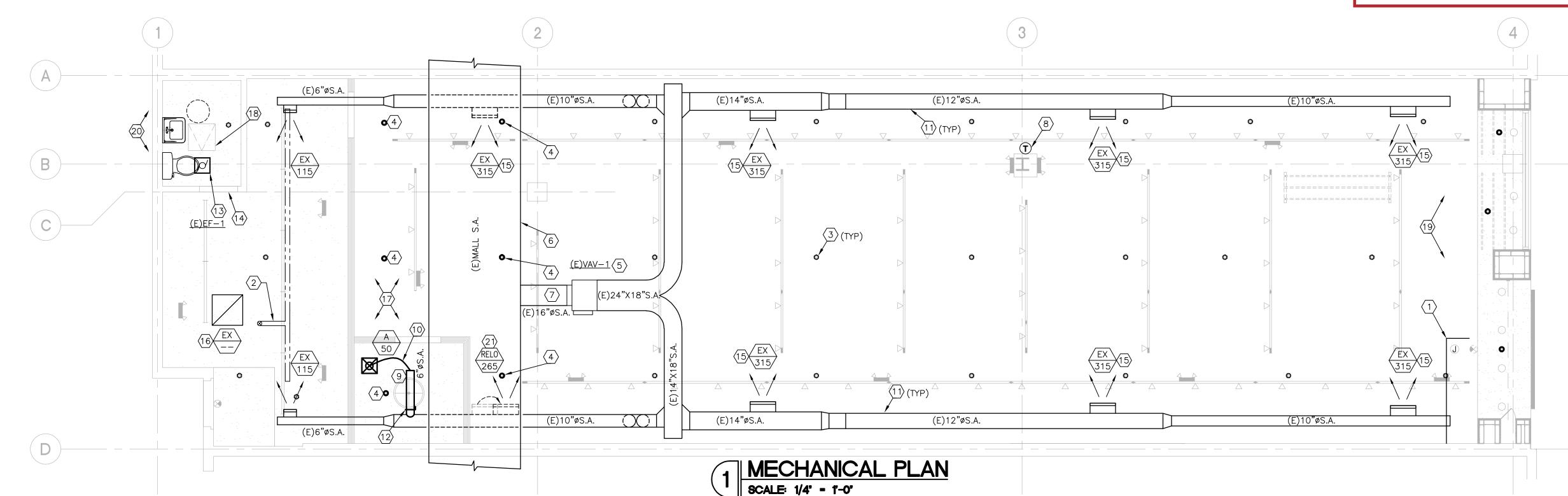
(TS) TEMPERATURE SENSOR

HVAC + SPRINKLER KEYED NOTES (

- 1 LANDLORD EXISTING DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION. FOR REFERENCE ONLY. AVOID WITH NEW CONSTRUCTION.
- $\langle 2 \rangle$ EXISTING MALL SPRINKLER MAIN TO REMAIN. FIELD VERIFY EXACT LOCATION, SIZE, AND ROUTING.
- (3) EXISTING SPRINKLER HEAD TO REMAIN. FIELD VERIFY LOCATION.
- (4) PROVIDE NEW SPRINKLER HEAD. COORDINATE WITH NEW LIGHTS, CEILING, AND DUCTWORK AS REQUIRED. MODIFY SUPPLY PIPING AS REQUIRED. REFER TO MECHANICAL SPECIFICATIONS FOR SPRINKLER HEAD TYPE.
- (5) EXISTING VAV BOX TO REMAIN (PRICE SIZE 16, 2750 CFM). FIELD VERIFY EXACT MAKE, MODEL, SIZE AND LOCATION. MECHANICAL CONTRACTOR IS TO CLEAN UNIT AND PERFORM GENERAL MAINTENANCE AS REQUIRED. REPORT ANY DEFICIENCIES TO HOT TOPIC'S ON—SITE REPRESENTATIVE PRIOR TO SUBMITTING A BID. LANDLORD CONTRACTOR IS RESPONSIBLE TO MAINTAIN HVAC SYSTEMS SERVING RENTABLE PREMISES AT TENANT GC'S EXPENSE. COORDINATE WITH LANDLORD PRIOR TO BID AND ANY WORK REQUIRED.
- 6 LANDLORD'S EXISTING SUPPLY AIR MAIN. FIELD VERIFY EXACT LOCATION AND SIZE.
- 7) EXISTING SUPPLY AIR TAP TO VAV BOX TO REMAIN. FIELD VERIFY EXACT LOCATION AND SIZE.
- 8 EXISTING HEATING/COOLING THERMOSTAT TO REMAIN. FIELD VERIFY EXACT LOCATION AND CONDITION. ENSURE IN GOOD WORKING ORDER. COORDINATE WITH LANDLORD FOR ANY WORK REQUIRED PRIOR TO BID.
- 9 NEW LOW PRESSURE AIR DUCT SUPPLIED & INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE TRANSITIONS AS REQUIRED. DUCT SIZES SHOWN ARE CLEAR INTERNAL AIR PATH DIMENSIONS. HOLD ALL DUCTWORK AS HIGH AS POSSIBLE/PRACTICAL.
- 10 FLEXIBLE DUCT, MAXIMUM LENGTH 5'-0". PROVIDE SMOOTH TRANSITIONS AND PROPER SUPPORTS PER S.M.A.C.N.A. (TYPICAL). USE FLEXIBLE DUCT FOR FINAL RUNOUT TO CEILING MOUNT DIFFUSER ONLY. REFER TO SCHEDULE FOR FLEXIBLE DUCT SIZES.
- (11) EXISTING SUPPLY AIR DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATIONS. DUCT DIMENSIONS ARE CLEAR INTERNAL AIR PATH DIMENSIONS. PATCH/REPAIR/SEAL AIR TIGHT/REPLACE, AND PROVIDE NEW INSULATION AS REQUIRED. REFER TO M3.0 FOR ADDITIONAL INFORMATION.
- (12) INSTALL MANUAL VOLUME DAMPER AT BRANCH DUCT TAKE-OFF (TYPICAL).
- EXISTING TOILET EXHAUST FAN AND DUCT SYSTEM TO REMAIN. CONTRACTOR SHALL INSPECT.

 PERFORM GENERAL MAINTENANCE, AND CLEAN AS REQUIRED. FIELD VERIFY EXACT LOCATION AND CONDITION. PROVIDE NEW IF NOT IN GOOD WORKING ORDER.
- 14) UNDERCUT TOILET ROOM DOOR 3/4" (MIN.) TO FACILITATE AIR FLOW. COORDINATE WITH GENERAL CONTRACTOR.
- (15) EXISTING SUPPLY AIR DIFFUSER TO REMAIN. FIELD VERIFY EXACT LOCATION AND CONDITION. CLEAN, REPAIR/REPLACE, AND PAINT TO MATCH ADJACENT CEILING AS REQUIRED. (TYP. OF 9). BALANCE TO CFM SHOWN ON PLAN.
- (16) EXISTING RETURN AIR GRILLE TO REMAIN. FIELD VERIFY EXACT LOCATION AND CONDITION. CLEAN, REPAIR/REPLACE, AND PAINT TO MATCH ADJACENT CEILING AS REQUIRED.
- EXISTING HVAC EQUIPMENT, DUCTWORK, HANGERS, ASSOCIATED CONTROLS, ETC. NOT SCHEDULED TO BE RELOCATED OR RE-USED SHALL BE DISCONNECTED AND REMOVED FROM JOB SITE. <u>DO NOT JUST ABANDON</u>. FIELD VERIFY EXACT CONDITIONS AND LOCATIONS PRIOR TO SUBMITTING A BID.
- (18) EXISTING ACCESS PANEL TO REMAIN. FIELD VERIFY.
- 19) FIELD VERIFY EXISTING RETURN AIR BACK TO LANDLORD'S SYSTEM. ENSURE OPENINGS ARE CORRECT SIZE AND QUANTITY PER LANDLORD'S REQUIREMENTS.
- EXISTING TOILET ROOM AND PLUMBING FIXTURES TO REMAIN. ENSURE FIXTURES ARE IN GOOD WORKING ORDER. REPAIR/REPLACE AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS.
- 21) SUPPLY AIR DIFFUSER TO BE RELOCATED. FIELD VERIFY EXACT LOCATION AND CONDITION. CLEAN, REPAIR/REPLACE, AND PAINT TO MATCH ADJACENT CEILING AS REQUIRED. PATCH/MODIFY DUCTWORK AS REQUIRED. BALANCE TO CFM SHOWN ON PLAN.

ISSUED FOR CONSTRUCTION



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M1.0

MALL REQUIREMENTS GENERAL NOTES

- TENANT GC TO ATTEND THE SITE AND CONFIRM THE LOCATIONS AND SIZES OF ALL EXISTING SERVICES. ENSURE THAT EXISTING CONDITIONS ARE PROPERLY REPRESENTED ON THE FITOUT PLANS. DESIGN IS BASED OFF FIELD SURVEY INFORMATION.
- 2. CONFORM TO SCHEDULE "C" OF LANDLORD/ TENANT LEASE AGREEMENT.
- 3. ALL DRAWINGS SUBMITTED FOR REVIEW SHALL BE SEALED AND BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL ENGINEER.
- 4. TENANT TO PROVIDE A COMPLETE SET OF HEATING AND COOLING LOAD CALCULATIONS TO THE LANDLORD FOR VERIFICATION OF EXISTING SYSTEM REQUIREMENTS.
- 5. ALL SHUTDOWNS OF ANY BASE BUILDING SYSTEMS SHALL BE PERFORMED BY THE LANDLORD'S BUILDING OPERATIONS STAFF AND COORDINATED WITH THE LANDLORD FOR THE TIME AND DURATIONS OF INTERRUPTIONS. WRITTEN REQUESTS MUST BE PROVIDED 48 HOURS (MINIMUM) IN ADVANCE FOR SHUTDOWN OF ANY MECHANICAL SYSTEM PRIOR TO THE PROPOSED SHUTDOWN TIME, FILLING, DRAINING, AND TESTING OF FIRE PROTECTION SYSTEM SHALL BE CARRIED OUT AFTER REGULAR RETAIL HOURS OF OPERATION AND SCHEDULED WITH THE LANDLORD. COSTS FOR DRAIN DOWN AND RECHARGING OF THE SPRINKLER SYSTEM TESTING SHALL BE BILLED AS PER BASE BUILDING STANDARD.
- 6. ALL FIRE PROTECTION SYSTEMS SHALL BE FLUSHED AND CLEANED TO THE REQUIREMENTS OF BASE BUILDING STANDARDS PRIOR TO CONNECTION TO THE BASE BUILDING SYSTEM.
- 7. THE CEILING SPACE IS A RETURN AIR PLENUM. IT IS THE TENANT CG RESPONSIBILITY TO ENSURE ALL MATERIALS IN THE RETURN AIR PLENUM IS PLENUM RATED AND MEETS OR EXCEEDS THE N.B.C. FLAME AND SMOKE SPREAD/ DEVELOPMENT RATINGS.
- 8. BASE BUILDING AIR HANDLING SYSTEMS USE TENANT CEILING PLENUM SPACES AS COMMON RETURN AIR PATH. ENSURE THAT ALL BASE BUILDING RETURN AIR PATHS ARE MAINTAINED DURING AND AFTER CONSTRUCTION.
- 9. TENANT'S GC IS RESPONSIBLE TO COORDINATE BETWEEN MECHANICAL, ELECTRICAL AND ARCHITECTURAL DESIGN
- 10. WHERE EXISTING BASE BUILDING SUPPLY, RETURN & EXHAUST DUCTWORK IS TO BE SHOWN TO REMAIN, ALL NEW DUCTWORK IS TO BE COORDINATED WITH EXISTING TO MAXIMIZE HEIGHT OF NEW SERVICES.
- 11. TENANT'S GC IS RESPONSIBLE TO REMOVE ALL REDUNDANT OR ABANDONED MECHANICAL, ELECTRICAL, PLUMBING, SPRINKLERS, DUCTING, DAMPERS, CONTROLS, SUPPORTS AND ALL RELATED COMPONENTS WITHIN THEIR LEASED PREMISES DURING ANY CONSTRUCTION OR RENOVATION.
- 12. ALL EXISTING EQUIPMENT NOTED TO BE REMOVED SHALL FIRST BE REVIEWED BY THE LANDLORD PRIOR TO REMOVAL FROM SITE AND SHALL BE RETURNED TO THE LANDLORD IF SO DESIRED.
- 13. TENANT GC TO REPLACE ALL MISSING AND/OR DAMAGED INSULATION ON BASE BUILDING DUCTWORK AND PIPING.
- 14. ALL SPRINKLER AND FIRE STANDPIPE WORK MUST BE PERFORMED BY A CONTRACTOR APPROVED BY THE LANDLORD AND CONFORM TO THE LANDLORD'S INSURANCE UNDERWRITER REQUIREMENTS. AFTER COMPLETION OF TENANT MODIFICATIONS, THE SPRINKLER SYSTEM SHALL BE PRESSURE TESTED AS PER BASE BUILDING STANDARDS.
- 15. CHECK AND VERIFY LOCATION OF EXISTING EQUIPMENT AND SERVICES IN CEILING SPACE OF FLOOR BELOW PRIOR TO DRILLING THROUGH EXISTING SLAB AS REQUIRED FOR NEW HVAC OR PLUMBING PIPING. ALLOW FOR ALL NECESSARY SCANNING TO LOCATE ANY HIDDEN ELECTRICAL SERVICES, STRUCTURAL REINFORCING ETC. COORDINATE ALL THIS WORK WITH THE LANDLORD. REFER TO LANDLORD'S TENANT CONTRACTORS' RULES AND REGULATIONS.
- 16. TENANT GC TO RUN ANY NECESSARY SERVICES IN THE CEILING SPACE OF THE TENANT BELOW. PERFORM WORK AT NIGHT. REPAIR ALL DAMAGED FINISHES/ CEILING TO NEW CONDITION. REPAINT THE ENTIRE CEILING IF DISTURBED.
- 17. SITE VERIFY ACTUAL LOCATION, NUMBER AND CAPACITY OF EXISTING MECHANICAL EQUIPMENT BEFORE COMMENCEMENT OF WORK. CONTRACTOR SHALL INSPECT EXISTING CONDITION OF ALL EXISTING SYSTEMS. CONTRACTOR SHALL PROVIDE ALL NECESSARY REPAIRS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM. TENANT'S ENGINEER MUST PERFORM A SITE VISIT FOR VERIFICATION OF EXISTING EQUIPMENT PRIOR TO DESIGN. DESIGN WAS BASED OFF FIELD SURVEY INFORMATION.
- 18. WHERE THERE IS MORE THAN 4FT OF CEILING SPACE ENSURE THAT ALL EQUIPMENT IS INSTALLED JUST ABOVE THE CEILING SO THAT IT CAN BE SERVICED FROM THE PROVIDED ACCESS DOORS. (ROOFTOP UNITS EXCLUDED FROM THIS REQUIREMENT).
- 19. PROVIDE NEW 7-DAY PROGRAMMABLE HEATING/ COOLING THERMOSTATS UNLESS NOTED TO BE SENSORS ON THE BASE BUILDING AUTOMATION SYSTEM. LABEL THERMOSTAT AS TO PIECE OF EQUIPMENT IT SERVES WITH A PRINTED STICK ON
- 20. PROVIDE ISOLATION VALVES ON DOMESTIC HOT WATER AND DOMESTIC COLD WATER PIPING TO EACH FIXTURE.
- 21. HIRE BASE BUILDING ROOFER TO INSTALL ANYTHING THAT PENETRATES THE ROOF INCLUDING DUCT, VENTS, AND ROOF
- 22. PROVIDE EXPANSION TANK ON DOMESTIC HOT WATER SYSTEM, IF NOT ALREADY EXISTING. FIELD VERIFY.
- 23. USE OF ABS OR PVC PIPING IS NOT PERMITTED.
- 24. CONFORM TO ALL REQUIREMENTS OF THE TENANT MANUAL.
- 25. LABEL ALL NEW DOMESTIC WATER AND DOMESTIC HOT WATER PIPING.
- 26. PROVIDE A LAMACOID LABELS ON NEW EQUIPMENT.
- 27. ANY SECURITY ARRANGEMENTS THAT ARE REQUIRED SHALL BE MADE WITH THE TENANT COORDINATOR FOR ALL WORK IN EXISTING TENANT SPACES. COSTS SHALL BE AT THE TENANT GC'S EXPENSE.
- 28. PROVIDE ACCESS PANELS IN HARD SURFACE CEILINGS/ WALLS AS NECESSARY FOR ACCESS TO TENANT AND LANDLORD CONTROLS, VALVES, EQUIPMENT, ETC. ALL PANELS TO BE OF THE SAME TYPE, TAPED-IN FLUSH AND PAINTED TO MATCH CEILING/ WALLS AT TENANT GC'S EXPENSE. COORDINATE NUMBER AND LOCATION OF ACCESS POINTS WITH SITE CONDITIONS AND THESE DOCUMENTS. COORDINATE REQUIRED LOCATIONS WITH LANDLORD REPRESENTATIVE PRIOR TO INSTALLATION.
- 29. MINIMUM ACCESS DOOR SIZE IS 24"X24". DOOR SHALL OPEN AS TO NOT IMPEDE ACCESS TO THE EQUIPMENT SERVED. DOOR SHALL BE LOCATED TO FACILITATE FILTER REMOVAL. ENSURE THAT NO SERVICES RUN HORIZONTALLY ABOVE ACCESS DOORS IN THE CEILING SPACE.
- 30. ENSURE THAT THERE ARE NO SERVICES IN THE CEILING SPACE WITHIN 3FT OF ANY PIECE OF EQUIPMENT. ENSURE A CLEAR PATH FOR AIR FILTER REMOVAL/ REPLACEMENT.
- 31. ALL SPRINKLER HEADS ARE TO BE NEW AND COORDINATE SPRINKLER SHUTDOWNS WITH THE LANDLORD.
- 32. SECOND LEVEL DRAIN LOCATIONS ARE LIMITED. SANITARY DRAINS CAN ONLY BE LOCATED AT THE REAR OF CRU'S CLOSE TO EXISTING DRAIN LOCATIONS.
- 33. USE LANDLORD APPROVED BALANCING CONTRACTOR. OBTAIN THE LIST OF APPROVED CONTRACTORS FROM MALL OPERATIONS.
- 34. PROTECT ROOF ASSEMBLY FROM DAMAGE DUE TO TENANT'S PROJECT WORK. AT MINIMUM, PROVIDE PLYWOOD ON TOP OF RIGID INSULATION ANYWHERE MATERIAL LAYDOWN AND HEAVY FOOT TRAFFIC WILL OCCUR. ADDITIONAL SUPPORTS/ TIMBER MAY BE REQUIRED BELOW HEAVIER EQUIPMENT. IT IS THE TENANT GC RESPONSIBLY TO ENSURE THE MATERIAL USED FOR ROOF PROTECTION ARE ADEQUATE. REVIEW AREA OF WORK WITH LANDLORD PRIOR TO PERFORMING ANY WORK OR LANDING ANY MATERIAL ON THE ROOF. HIRE LANDLORDS PREFERRED ROOFING CONTRACTOR AT YOUR COST TO REPAIR ANY DAMAGE TO THE ROOF CAUSED BY TENANT TRADES.
- 35. TENANT TO PROVIDE ONE (1) COPY OF THE FINAL CERTIFICATE OF APPROVAL FROM BUILDING INSPECTION DEPARTMENT TO THE LANDLORD WITHIN THE TENANT'S CLOSE OUT PACKAGE.
- 36. AT THE END OF THE CONSTRUCTION SUBMIT TWO SETS OF "AS-BUILT" DRAWINGS (HARD COPIES AND AUTOCAD), MAINTENANCE MANUALS AND FINAL CERTIFICATE OF APPROVAL FROM CITY OF SASKATOON BUILDING INSPECTION DEPARTMENT TO THE LANDLORD.

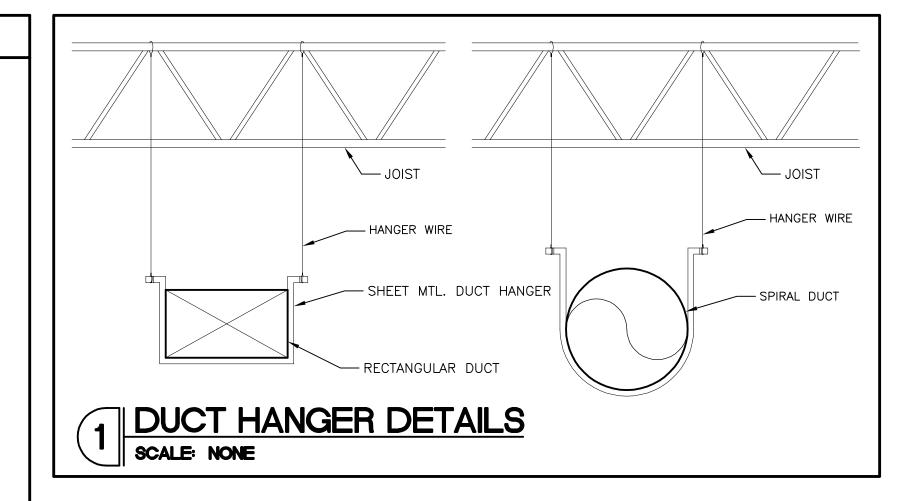
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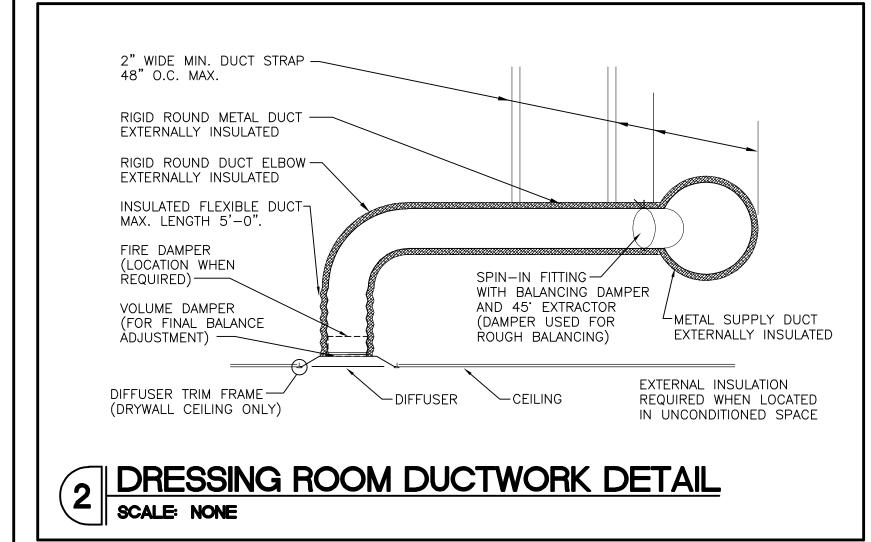
| | D | ESIGN COOLIN | G | D | ESIGN HEATING | |
|-------------------------------|----------------------|------------------|-----------|----------------------|--------------------|----------|
| | COOLING DATA | AT Jul 1400 | | HEATING DATA | AT DES HTG | |
| | COOLING OA D | B / WB 86.3 °F | 7 63.8 °F | HEATING OA DE | 3 / WB -31.0 °F / | -31.4 °F |
| | | Sensible | | | Sensible | Latent |
| ZONE LOADS | Details | (BTU/hr) | (BTU/hr) | Details | (BTU/hr) | (BTU/hr) |
| Window & Skylight Solar Loads | O ft² | 0 | - | O ft ² | - | - |
| Wall Transmission | 0 ft² | 0 | - | 0 ft ² | 0 | - |
| Roof Transmission | 1996 ft ² | 10874 | - | 1996 ft² | 22261 | - |
| Window Transmission | 0 ft² | 0 | - | 0 ft ² | 0 | - |
| Skylight Transmission | 0 ft ² | 0 | - | 0 ft ² | 0 | - |
| Door Loads | 0 ft² | 0 | - | 0 ft² | 0 | - |
| Floor Transmission | 1764 ft ² | 0 | - | 1764 ft ² | 0 | - |
| Partitions | 0 ft² | 0 | - | 0 ft² | 0 | - |
| Ceiling | 0 ft² | 0 | - | 0 ft ² | 0 | - |
| Overhead Lighting | 1563 W | 4215 | - | 0 | 0 | - |
| Task Lighting | 0 W | 0 | - | 0 | 0 | - |
| Electric Equipment | 3771 W | 11661 | - | 0 | 0 | - |
| People | 38 | 6922 | 7847 | 0 | 0 | 0 |
| Infiltration | - | 0 | 0 | - | 0 | 0 |
| Miscellaneous | - | 4110 | 0 | - | 0 | 0 |
| Safety Factor | 20% / 20% | 7556 | 1569 | 20% | 4452 | 0 |
| >> Total Zone Loads | - | 45339 | 9417 | - | 26713 | 0 |
| Zone Conditioning | - | 49409 | 9417 | - | 26567 | 0 |
| Plenum Wall Load | 0% | 0 | - | 0 | 0 | - |
| Plenum Roof Load | 0% | 0 | - | 0 | 0 | - |
| Plenum Lighting Load | 0% | 0 | - | 0 | 0 | - |
| Return Fan Load | 2750 CFM | 0 | - | 2750 CFM | 0 | - |
| Ventilation Load | 0 CFM | 0 | 0 | 0 CFM | 0 | 0 |
| Supply Fan Load | 2750 CFM | 3058 | - | 2750 CFM | -3058 | - |
| Space Fan Coil Fans | - | 0 | - | - | 0 | - |
| Duct Heat Gain / Loss | 0% | 0 | - | 0% | 0 | - |
| >> Total System Loads | - | 52467 | 9417 | - | 23509 | 0 |
| Central Cooling Coil | - | 52467 | 9420 | - | 0 | 0 |
| Central Heating Coil | - | 0 | - | - | 23509 | - |
| >> Total Conditioning | - | 52467 | 9420 | _ | 23509 | 0 |
| Key: | Positiv | e values are clo | loads | Positiv | e values are htg l | oads |
| | Negativ | e values are ht | g loads | Negativ | e values are clg l | oads |

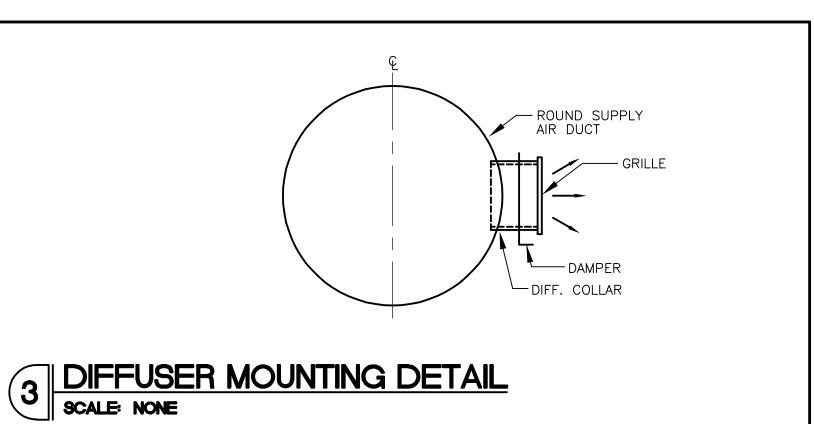
Design Parameters:

| City Name | Saskatoon | |
|--|----------------------|----------------|
| Location | Saskatchewan | |
| Latitude | 52.2 | Deg. |
| Longitude | 106.7 | Deg. |
| Elevation | 1654.0 | ft |
| Summer Design Dry-Bulb | 87 . 0 | °F |
| Summer Coincident Wet-Bulb | 64.0 | °F |
| Summer Daily Range | 22.7 | °F |
| Winter Design Dry-Bulb | | |
| Winter Design Wet-Bulb | | °F |
| Atmospheric Clearness Number | 1.05 | |
| Average Ground Reflectance | 0.20 | |
| Soil Conductivity | 0.800 | BTU/(hr-ft-°F) |
| Local Time Zone (GMT +/- N hours) | 6.0 | hours |
| Consider Daylight Savings Time | No | |
| Simulation Weather Data | N/A | |
| Current Data is | 2001 ASHRAE Handbook | |
| Design Cooling Months January to December | | |

m lack outside air is provided through landlord's supply air to tenant's vav system.







ISSUED FOR CONSTRUCTION

O 24 MIDTOWN 1ST AVENU SKATOON, 2011 SASI S S

HEATING, VENTILATING AND AIR CONDITIONING GENERAL

- A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION OR INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, SHALL BE COMPLIED WITH IN EVERY ASPECT.
- B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.
- C. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

- A. EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS.
- B. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION. FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY DRAWINGS AND/OR BY TENANT'S DIRECTIONS.

- A. ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOBSITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.
- B. ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL EXISTING CONDITIONS AFFECTING HIS WORK. ALL PROPOSALS SHALL SPECIFY, IN WRITING, ALL SUCH CONDITIONS THAT MAY ALTER OR AFFECT THE WORK UNDER THIS CONTRACT.

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED.

CODE REQUIREMENTS

EACH CONTRACTOR SHALL COMPLY WITH ALL LAWS. ORDINANCES. RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING, IF ANY CONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, SUCH CONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

MATERIALS AND WORKMANSHIP

- A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY AND ALL DEFECTS. LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION AND COMPLETION, INSTALLATION SHALL BE THOROUGHLY CLEANED OF ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT AND SHALL BE REMOVED FROM THE PREMISES, DO NOT ABANDON
- C. MANUFACTURERS ARE LISTED ON PLANS TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF QUALITY EQUAL TO OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, FOR THE PURPOSE OF WHICH THE ITEMS SPECIFIED WERE INTENDED. ALL SUBSTITUTION REQUESTS SHALL BE SUBMITTED TO THE TENANT'S REPRESENTATIVE FOR APPROVAL PRIOR TO ORDERING.

PROTECTION OF WORK AND PROPERTY

- EACH CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.
- B. EACH CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH CONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, THE OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO, OR DEDUCTING FROM THE WORK, WITH CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE SUF-FICIENT TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. CONTRACTORS SHALL CONTACT OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE INSTALL-ATION OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

DRAWINGS AND SPECIFICATIONS

- A. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.
- B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR, TO ANY ITEMS SHOWN ON CONTRACT DRAWINGS, SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.
- C. SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND OTHER SUCH ILLUSTRATIVE MATERIAL THAT MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND/OR CONSTRUCTION MODIFICATIONS.

<u>RESPONSIBILITY</u>

- A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE AND FULLY OPERATIONAL SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED. FOR EXAMPLE, ON SINK INSTALLATIONS, ESCUTCHEONS SHALL BE PROVIDED FOR COUNTERTOP PENETRATIONS, ALTHOUGH THEY WERE NOT SPECIFICALLY IDENTIFIED IN THE CONTRACT DOCUMENTS.
- B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED AIR BALANCE REPORT AT COMPLETION OF PROJECT. THIS SHALL BE REQUIRED FOR BOTH REMODELED AND NEW STORES.

- A. SQUARE/RECTANGULAR/ROUND CONCEALED ROUND DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL.
- B. EXPOSED ROUND DUCTWORK SHALL BE SPIRAL AND CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL.
- C. ALL 90 DEGREE ELBOWS FOR ROUND DUCTWORK SHALL BE FIVE (5) PIECE.
- D. ALL LONGITUDINAL SEAMS SHALL BE FORMED BY PITTSBURGH, DRIVE SLIP OR HEMMED S SLIP LOCKS.
- E. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS; MECHANICAL FASTENERS WITH SEALS, GASKETS, MASTICS, MESH AND MASTIC SEALING SYSTEMS, OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT STATIC PRESSURES LESS THAN OR EQUAL TO 2" W.G. SHALL BE SECURELY FASTENED AND SEALED WITH WELDS GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- F. JOINTS SHALL BE SWAGGED WITH ONE—HALF INCH (1/2") OVERLAP.
- G. CONCEALED SUPPLY AIR DUCTS, CONCEALED RETURN AIR DUCTS AND ALL OUTSIDE AIR DUCTS SHALL BE INSULATED WITH 2.5" (R-6.0) THICK (MINIMUM) EXTERNAL ACOUSTICAL AND THERMAL INSULATION WHEN LOCATED IN UNCONDITIONED SPACE.
- H. DUCTWORK LOCATED IN OPEN TO DECK CONDITIONED SPACE DOES NOT REQUIRE INSULATION.
- I. FLEXIBLE AIR DUCT FOR CONNECTIONS BETWEEN MAIN DUCTS AND AIR DEVICES SHALL BE AIR DUCT LISTED BY UNDERWRITERS LABORATORIES UNDER UL STANDARD 181 AS A CLASS 1 FLEXIBLE AIR DUCT AND COMPLY WITH NFPA STANDARDS 90A AND 90B. FLEXDUCT SHALL BE FACTORY MADE AND COMPOSED OF A CPE LINER DUCT PERMANENTLY BOUNDED TO A COATED SPRING STEEL WIRE HELIX SUPPORTING A FIBER GLASS INSULATING BLANKET R-6.0. A LOW PERMEABILITY OUTER VAPOR BARRIER OF FIBER GLASS REINFORCED FILM LAMINATE SHALL COMPLETE THE COMPOSITION.
- CONTRACTOR SHALL SUPPLY AND INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH TERMINATE OUTDOORS AND ALL RETURN AIR PLENUM DUCT DROPS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL
- K. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE LATEST EDITION OF THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE), FABRICATED AND INSTALLED IN ACCORDANCE WITH THE METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) HVAC DUCT CONSTRUCTION STANDARDS - METAL AND
- L. MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT.

HANGERS AND SUPPORTS

- A. HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE "SMACNA" MANUAL ARE ADHERED TO.
- B. DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C. STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'-0" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'-0" O.C.
- C. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO DUCT BY MEANS OF RIVETS, SCREWS OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES AT FLOOR PENETRATIONS.
- D. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.
- E. ALL DUCTS SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL. MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

<u>FLASHING</u>

- A. CONTRACTOR SHALL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.
- B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE INCLUDED IN THE RESPONSIBILITY OF THE HVAC SUBCONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK TO MAINTAIN THE ROOF WARRANTY.

- A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER TO BE SIZED ADEQUATELY TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS, DAMPERS SHALL BE CONTROLLED AS FOLLOWS:
- 1. EXPOSED OR ACCESSIBLE DUCTWORK LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.
- 2. CONCEALED DUCTWORK LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).
- B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS TO BE OF THE SELF-LUBRICATING FERRULE TYPE.

DAMPERS (CONTINUED)

- C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, FLOORS, CEILINGS AND ROOF AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITES HAVING JURISDICTION.
- D. FIELD FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER—COLMAN AIRTURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER LINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUST OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES OF THE LATEST ISSUE OF ASHRAE AND SMACNA STANDARDS.

ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CON-NECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

<u> TESTING AND ADJUSTING</u>

CONTRACTOR SHALL EMPLOY AN INDEPENDANT, CERTIFIED TEST AND BALANCE CONTRACTOR TO DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT, SHALL BALANCE AIR FLOW AND TEMPERATURES IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND SHALL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT AND LANDLORD'S REPRESENTATIVE OPERATION AND MAINTENANCE DOCUMENTATION MUST BE PROVIDED TO

- THE OWNER THAT INCLUDES AT LEAST THE FOLLOWING INFORMATION: A. EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS.
- B. EQUIPMENT OPERATION AND MAINTENANCE MANUALS.
- C. HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS; DESIRED OR FIELD-DETERMINED SET POINTS MUST BE PERMANENTL' RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.
- D. COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO
- E. EWB/EDB AND LWB/LDB FOR THE COOLING/HEATING COIL. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING

<u>GUARANTEE</u>

PLUMBING CODE.

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL COST TO THE TENANT.

<u>EQUIPMENT</u>

A. EXHAUST FANS 1. EXISTING TO REMAIN.

B. THERMOSTATS — EXISTING TO REMAIN. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION SHALL BE AS FOLLOWS:

75°F MAXIMUM OCCUPIED COOLING TEMPERATURE 85°F COOLING NIGHT SETBACK.

70°F MAXIMUM OCCUPIED HEATING TEMPERATURE 60°F HEATING NIGHT SETBACK.

VERIFY WITH LANDLORD REQUIREMENTS AND ANY NEW WORK NEEDED. ENSURE IN GOOD WORKING ORDER.

C. EXISTING VAV BOX TO REMAIN. REFER TO MECHANICAL PLAN FOR ADDITIONAL INFORMATION.

SPRINKLER SYSTEM

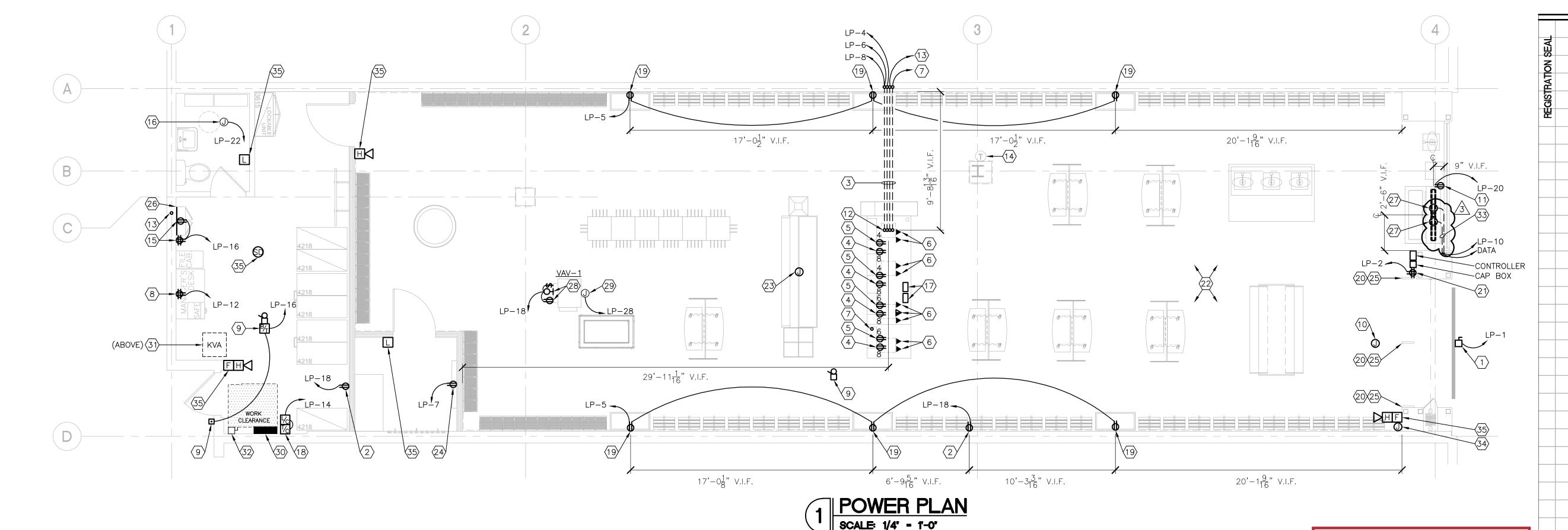
- A. SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY SPRINKLER CONTRACTOR EMPLOYED BY GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH NFPA 13 AND ALL APPLICABLE CODES, RULES AND REGULATIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, CERTIFICATES OF INSPECTION AND APPROVALS REQUIRED. THE INSTALLATION OF ALL SPRINKLER WORK SHALL CONFORM TO THE APPLICABLE LOCAL CODES AND STATUES AND LOCAL FIRE DEPARTMENT REGULATIONS.
- B. SHOP DRAWINGS-THE SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE TENANT'S LANDLORD AND TO THE APPROPRIATE AUTHORITIES AND INSURANCE UNDERWRITER FOR THEIR APPROVAL. A COPY OF THE APPROVAL LETTER FROM THESE AUTHORITIES SHALL BE FORWARDED TO THE TENANT, LANDLORD AND DESIGN ARCHITECT.
- C. SPRINKLER HEAD TYPES SHALL BE AS FOLLOWS:
- 1. FITTING ROOM: CONCEALED, CAP TO BE BLACK
- 2. SALES, OPEN TO DECK:
 - EXISTING UPRIGHT WHEN REUSING EXISTING HEADS IN OPEN TO DECK AREAS, ANY NEW HEADS ADDED SHALL MATCH EXISTING
- 3. TOILET ROOM:
- EXISTING SEMI RECESSED TO REMAIN.
- 4. STORE FRONT:
- EXISTING CONCEALED WITH BLACK CAP
- 5. STOCK: EXISTING UPRIGHT PENDANT TO REMAIN.

ISSUED FOR CONSTRUCTION

| NAME | MIDTOWN PL | | I 201 1ST AVENU | | SASKATOON, O | AONO #ITCAGO |
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NOTE FOR GENERAL CONTRACTOR: $\,$ IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

3 O



FIRE ALARM SYMBOL LEGEND

F FIRE ALARM PULL STATION.

HORN/STROBE COMBINATION.

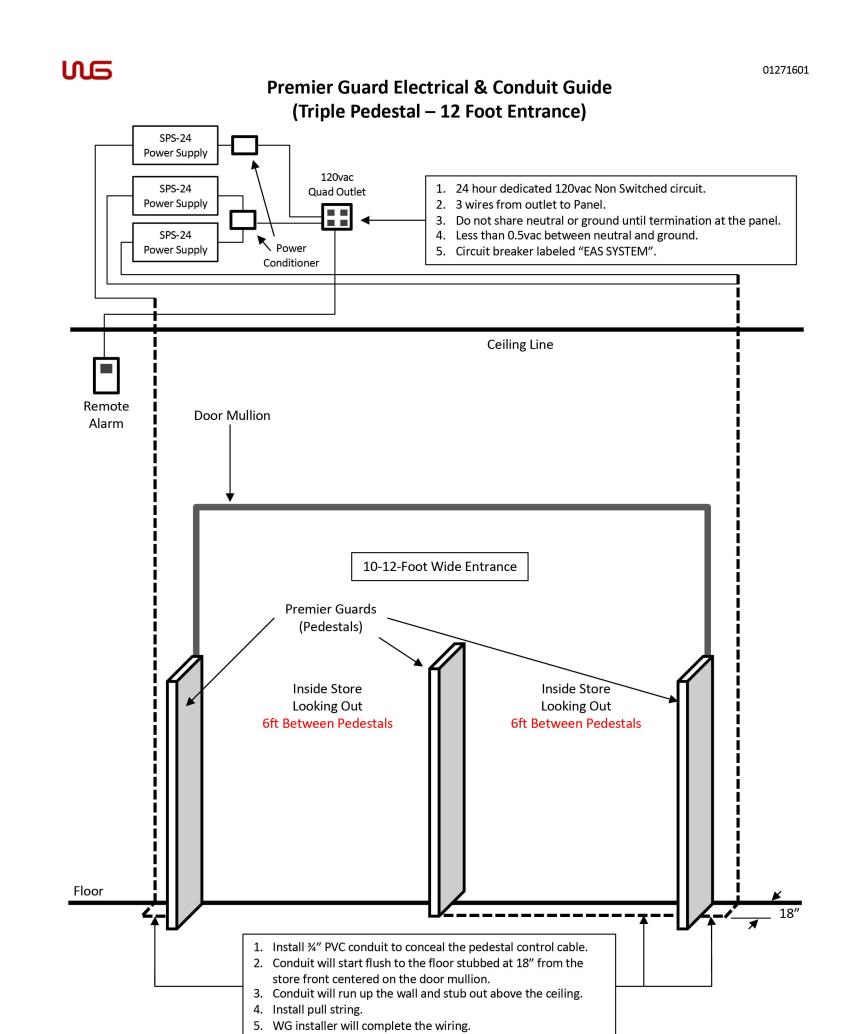
STROBE LIGHT

SMOKE DETECTOR

TYING—IN OF THE FIRE ALARM SYSTEM TO THE BASE BUILDING FIRE ALRM SYSTEM WILL BE PREFORMED BY THE LANDLORDS APPROVED CONTRACTOR AT THE G.C. EXPENSE.

GENERAL ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SHALL IMMEDIATELY NOTIFY THE OWNER'S PROJECT MANAGER OF ANY DISCREPANCIES.
- 2. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. CONDUITS IN EXPOSED CEILING AREAS SHALL EXIT WALLS AS CLOSE TO ROOF/FLOOR STRUCTURAL DECK AS POSSIBLE.
- 3. ANY EXISTING MATERIALS OR EQUIPMENT NOT TO BE REUSED MUST BE COMPLETELY REMOVED AND DISPOSED OF PROPERLY THROUGH THE LANDLORD'S DESIGNATED AND APPROVED HAULER. NO EQUIPMENT OR COMPONENTS MAY BE ABANDONED WITHOUT WRITTEN PERMISSION OF THE LANDLORD.
- 4. ANY PENETRATIONS THROUGH FIRE RATED WALLS NEED TO BE APPROPRIATELY FIRE STOPPED TO RETAIN THE WALL'S RATING.
- 5. CONTRACTOR SHALL ENSURE LOADS BETWEEN
 PHASES ON PANEL BOARDS ARE BALANCED WITHIN
 10%
- 6. ALL LOW VOLTAGE WIRING IN CEILING PLENUM (INCLUDING TELEPHONE. DATA, ALARM AND TEMP. CONTROL WIRING) SHALL BE UL LISTED TEFLON PLENUM CABLE.



2 THREE PEDESTAL PREMIER GUARD SCALE: NONE

ISSUED FOR CONSTRUCTION

POWER KEYED NOTES

- E.C. SHALL INSTALL DISCONNECT SWITCH FOR SIGNAGE CIRCUIT(S) AS REQUIRED BY C.E.C. REFER TO PLANS FOR NUMBER OF CIRCUITS REQUIRED. VERIFY EXACT LOCATION
- DUPLEX RECEPTACLE FLUSH MOUNTED HORIZONTAL IN WALL AT 19" A.F.F. TO BOTTOM OF ROUGH IN BOX FOR GENERAL USE.
- RUN ELECTRICAL IN 1", PHONES & DATA IN 2", AND A 3/4" WITH PULL STRING FOR SPEAKER WIRE IN RIGID CONDUITS TO CASHWRAP. ROUTE CONDUITS AS SHOWN ON PLAN DOWN WALL AND BY CORE DRILLING FLOOR AS REQUIRED BY LANDLORD. PATCH FLOOR AS REQUIRED. COORDINATE EXACT CONFIGURATION WITH TENANT REP. AND LOCATION WITH FIXTURE INSTALLER. ELECTRICAL CONDUIT AND WIRE AT CASHWRAP TO CONNECT TO PRE-INSTALLED J-BOX FOR FINAL CONNECTION.
- 4 PRE-INSTALLED DUPLEX RECEPTACLE BY MFGR.
- (5) PRE-INSTALLED DEDICATED DUPLEX RECEPTACLE, (HUBBELL OR EQUAL) BY MFGR.
- 6 PHONE/COMPUTER JACKS IN TYPICAL POS MOUNTED TO THE LEFT OR RIGHT 3" ABOVE THE BOTTOM SHELF. TWO RJ-45 CONNECTIONS PER EACH POS STATION AND ONE RJ-14 DUAL PORT CONNECTION WHERE INDICATED.
- FOR AMP/MUSIC PLAYER RUN CONDUITS WITH PULL STRINGS FOR SPEAKER WIRING FROM CASHWRAP TO SPEAKER LOCATIONS AS SHOWN. FOR SPEAKER WIRING RUN 3/4" CONDUITS WITH PULL STRINGS FOR SPEAKER WIRING TO LOCATIONS AS DIRECTED BY THE TENANT'S MUSIC PROVIDER. AMP/MUSIC PLAYER AND VOLUME CONTROLS FOR MUSIC PLAYER TO BE AT CASHWRAP.
- B DEDICATED QUADPLEX RECEPTACLE (HUBBELL OR EQUAL) MOUNTED IN WALL AT 36" A.F.F. AT STOCK ROOM DESK.
- 9 IF NOT EXISTING, PROVIDE A DELIVERY BUZZER SYSTEM SIMILAR OR EQUAL TO THOMAS & BETTS WITH TRANSFORMER, PUSH BUTTON, AND CHIME IN STOCK AND SALES TO BE EDWARDS #338-G5 CHIME. E.C. SHALL PROVIDE ALL J-BOXES, CONDUITS & WIRES TO COMPLETELY INSTALL THE SYSTEM. FIELD VERIFY PRIOR TO BID.
- (10) LOCATION OF SHOPPER TRAK. SEE SHEET E2.0 FOR MORE DETAIL
- DUPLEX RECEPTACLE FOR SHOW WINDOW FLUSH MOUNTED HORIZONTALLY ON CEILING OR ABOVE DISPLAY WINDOW. PER N.E.C. 210-62. RECEPTACLE AND COVER TO BE BLACK.
- CONDUIT STUB-UP AT CASH/WRAP COUNTER THRU ACCESS PANELS IN BASE. OBTAIN TEMPLATE OF CASH/WRAP BASE AND LOCATE STUB-UPS ACCORDINGLY.
- 2" CONDUIT BETWEEN IT CABINET/DATA RACK AND PULL BOX WITH PULL STRING BY G.C. LOW VOLTAGE WIRING WILL BE DONE BY HOT TOPIC.
- $\langle 14 \rangle$ EXISTING TEMPERATURE CONTROLS TO REMAIN AS IS.
- DUPLEX RECEPTACLE MOUNTED IN WALL AT 96" A.F.F. IN IT CABINET/DATA RACK FOR PHONE SYSTEM, ALARM, OR OTHER RELATED EQUIPMENT. QUADPLEX MOUNTED IN WALL AT 96" A.F.F. NEAR IT CABINET/DATA RACK. COORDINATE HEIGHTS WITH P.M. OR LOCATION OF IT CABINET IN ARCHITECTURAL DRAWINGS.
- (16) EXISTING CONNECTION TO WATER HEATER TO REMAIN. RECIRCUIT AS INIDCATED.
- (17) SWITCH AND ROUTER FOR CASH/WRAP SYSTEMS.
- (18) TIME CLOCK AND LIGHTING CONTACTOR. SEE DETAIL #2/E3.0.
- (19) RECESSED CLOCK TYPE DUPLEX RECEPTACLE MOUNTED HORIZONTAL IN WALL AT 19"
 A.F.F. TO BOTTOM OF ROUGH IN BOX FOR GENERAL USE.

- (20) WG SECURITY SYSTEM. SEE DETAIL ON THIS SHEET.
- 21 20A RATED QUADPLEX DEDICATED RECEPTACLE WITH ISOLATED GROUND FOR SECURITY SYSTEM. SPACE IS OPEN TO DECK NO CEILING. THE AC SOURCE MUST BE A 3-WIRE 24 HOUR UNSWITCHED OUTLET WITH LESS THAN 0.5 VAC BETWEEN NEUTRAL AND GROUND. UNSHARED NEUTRAL AND GROUND MUST BE FROM THE DEDICATED QUADPLEX TO THE CIRCUIT BREAKER PANEL IN THE BACK. PROVIDE "LOCK-ON" DEVICE ON BREAKER AT PANEL. RACEWAY FROM POWER PACK MOUNTED ABOVE ON BACK SIDE OF SOFFIT DOWN TO EACH ANTENNA. WIRE RUN CANNOT EXCEED 25 FEET AND MUST BE HIDDEN IN RACEWAY. VERIFY EXACT SPECS WITH WG SECURITY ELECTRONIC CORPORATION C/O BRYAN LINSKY @ 1-714-385-7191. SEE DETAIL THIS SHEET. RECEPTACLE AND COVER TO BE BLACK.
- G.C. SHALL FIELD VERIFY EXACT REQUIREMENTS FOR SMOKE/FIRE ALARM SYSTEM. REUSE ANY EXISTING DETECTION SYSTEM. REPLACE ANY DEFECTIVE DEVICES. IF THERE IS NOT AN EXISTING SYSTEM, E.C. SHALL SUPPLY AND INSTALL ALL NECESSARY EQUIPMENT (SMOKE DETECTORS, AUDIO/VISUAL ALARMS, FIRE ALARM PANEL, CONDUIT, WIRE, ETC.) FOR A NEW SYSTEM AS MAY BE REQUIRED BY LANDLORD AND/OR LOCAL FIRE MARSHALL. INSTALL SMOKE DETECTORS IN SUPPLY OR RETURN DUCTWORK AS REQUIRED BY LOCAL AUTHORITY. FIELD VERIFY AND COORDINATE. G.C. TO PROVIDE ALL FIRE ALARM DRAWINGS AS REQUIRED.
- J-BOX AT 14' A.F.F. FOR WIFI BOOSTER WITH CONDUIT TO PULL BOX MOUNTED ABOVE BACKWRAP. FIELD VERIFY AND COORDINATE WITH VENDOR AND HOT TOPIC PM.
- RECESSED DUPLEX RECEPTACLE FOR MIRROR LIGHT MOUNTED IN WALL AT 70" A.F.F. WHITE W/ COVER PLATE TO MATCH ADJACENT WALL COLOR. DUPLEX TO BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSOR. REFER TO LIGHTING FIXTURE SCHEDULE FOR MIRROR LIGHTING INFORMATION.
- CORE DRILL FOR INSTALLATION OF CONDUIT FOR WG SECURITY SYSTEM. G.C. TO SUPPLY 3/4" PVC WITH PULL STRING AND COORDINATE WITH SYSTEM INSTALLER. PATCH FLOOR TO MATCH SURROUNDING FLOOR AREA. PRIOR TO TRENCHING OBTAIN LANDLORD APPROVAL. CONFIRM WITH LANDLORD CORE DRILL LOCATIONS.
- 26 2'-0" X 2'-0" FRT UNPAINTED PLYWOOD TELEPHONE TERMINAL BOARD (T.T.B.) MOUNT DIRECTLY BELOW THE IT CABINET. PROVIDE 1-1/4"C. TO TELCO POINT OF CONNECTION.
- J-BOX WITH BLACK COVER AND DUPLEX RECEPTACLE TO BE FLUSH MOUNTED IN FLOOR AND CENTERED IN SHOW WINDOW FOR FUTURE TV DATA AND POWER. PROVIDE (1) 1/2" MINIMUM CONDUIT FOR POWER AND (1) 1/2" MINIMUM CONDUIT WITH PULL STRING FROM J-BOX TO PULL BOX LOCATED ABOVE SLATWALL ON THE WALL WHERE TRENCHING COMES TO THE CASHWRAP. FIELD VERIFY EXACT LOCATION AND TV REQUIREMENTS WITH HOT TOPIC PM.
- PROVIDE RECEPTACLE TYPE 5-15R AND SWITCHED LIGHT PROVIDED BY E.C. FOR MAINTENANCE, IF NOT FOUND EXISTING.
- (29) EXISTING CONNECTION FOR VAV-1 TO REMAIN. RECIRCUIT AS INDICATED.
- 30 PANEL "LP". REFER TO PANEL SCHEDULE.
- $\overline{\langle 31 \rangle}$ Transformer. Refer to one-line diagram.
- DISCONNECT. REFER TO ONE-LINE DIAGRAM.
- CONDUITS IN FLOOR TO BE CORE DRILLED. FIELD VERIFY EXACT LOCATION, AND TV REQUIREMENTS WITH HOT TOPIC PM.
- E.C. TO PROVIDE RELAY TO TIE INTO FIRE ALARM SYSTEM TO SHUTDOWN MUSIC UPON FIRE ALARM ACTIVATION. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- FIRE ALARM DEVICES SHOWN ON PLAN FOR REFERENCE ONLY, G.C. TO PROVIDE FILL FIRE ALARM DRAWINGS.

| + | VER PLAN | POM | X | FI ECTRICAL POWER PLAN |
|---|---|----------|-----------------|------------------------|
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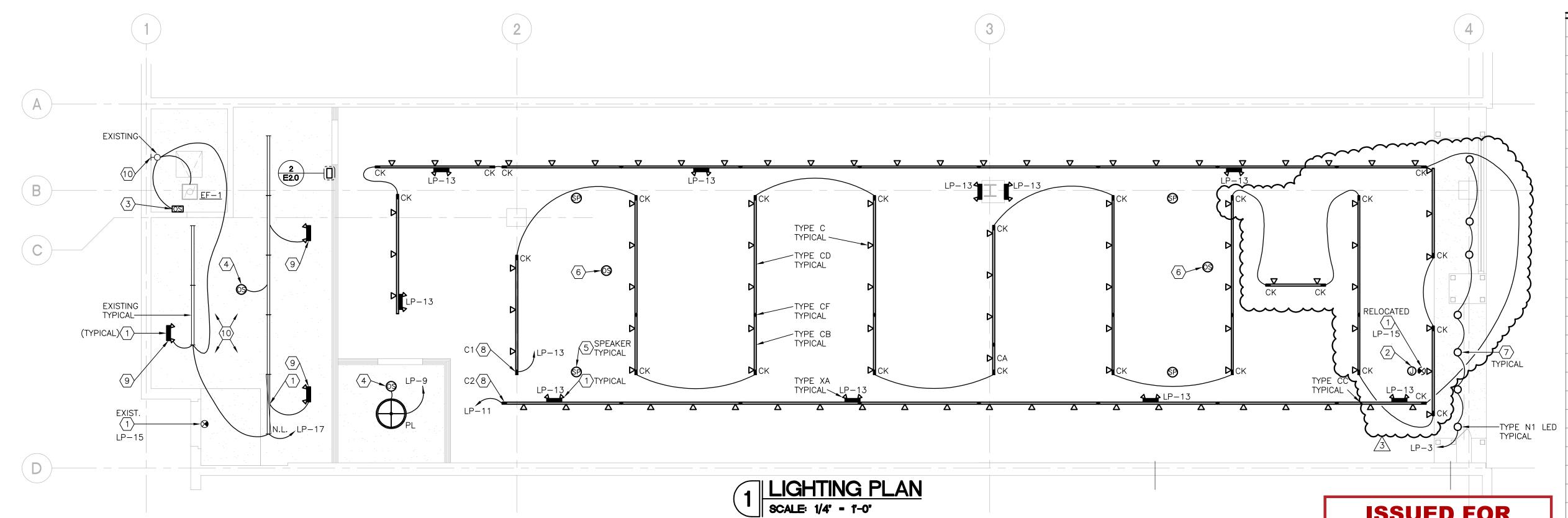
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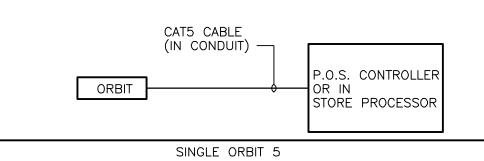
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3 SHOPPER TRAK DETAIL SCALE: NONE

GENERAL CONTRACTOR NOTES:

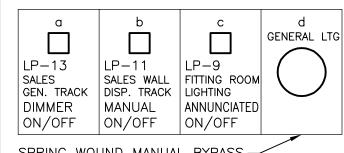
THE ORBIT 5 UNIT WILL BE INSTALLED CENTERED ABOVE THE DOORWAY. THE DISTANCE IN FROM THE DOORWAY WILL VARY DEPENDING ON WHETHER OR NOT THERE IS A DOOR THAT IS USED DURING THE DAY, AND WHICH DIRECTION THE DOOR SWINGS:

ARCHITECTURAL FOR MOUNTING LOCATION. ——

- A. IF THERE IS NO DOOR AT THE DOORWAY, OR THE DOORS WILL BE PROPPED OPEN DURING THE DAY THE ORBIT 5 WILL BE MOUNTED 6"-12" INSIDE OF THE DOORWAY.
- B. IF THERE IS A DOOR THAT SWINGS OUT, THE ORBIT 5 WILL BE MOUNTED 12"-18" INSIDE THE DOORWAY.
- C. IF THERE IS A DOOR THAT SWINGS IN, THE ORBIT 5 WILL BE MOUNTED 4"-6" IN FROM THE FURTHEST IN-SWING OF THE DOOR. 1. IF THE CEILING/SOFFIT IS 15' A.F.F. OR LESS AT THE MOUNTING LOCATION SPECIFIED
- ABOVE, ORBIT 5 WILL BE ATTACHED DIRECTLY TO THE CEILING. FOR CEILING/SOFFITS HIGHER THAN 15', SHOPPER TRAK WILL INSTALL A MOUNTING BRACKET THAT ATTACHES TO THE WALL ABOVE THE DOOR THAT WILL SUPPORT THE ORBIT AND POSITION THE UNIT 6"-18" INTO THE STORE. THE MOUNTING BRACKET WILL GENERALLY BE INSTALLED AT 12" A.F.F., UNLESS CONSTRUCTION CONDITIONS PREVENT THIS.
- 2. IF THE CEILING HEIGHT IS GREATER THAN 15' A.F.F., AND THE UNIT CANNOT BE MOUNTED BELOW 15' USING A BRACKET ATTACHED TO THE WALL ABOVE THE DOOR BECAUSE OF A CONTINUOUS, MULLION-FREE GLAZING, OR AN OPENING THAT EXTENDS TO THE CEILING, AN ORBIT WITH A SPECIAL TELEPHOTO LENS WILL BE INSTALLED AT THE CEILING LEVEL. THE TELEPHOTO LENS IS NOT EFFECTIVE ABOVE 30' A.F.F.
- 3. IF THE STORE HAS A VESTIBULE, THE ORBIT WILL BE MOUNTED INSIDE OF THE STORE ITSELF, RATHER THAN IN THE VESTIBULE.
- 4. IF THE STORE WILL HAVE A HARD (PLASTER OR SHEETROCK) CEILING, INSTALL A JUNCTION BOX 1"-2" AWAY FROM THE RECOMMENDED ORBIT LOCATION SPECIFIED ABOVE.
- 5. PROVIDE 1/2" CONDUIT W/PULL STRING FROM THE COMMUNICATIONS STRUCTURE TO A LOCATION ÁBOVE ENTRY SÓFFIT. LOOP CONDUIT TO OTHER DOORS AS REQUIRED.

COMMUNICATION WORK:

- 1. FOR SINGLE ORBIT 5 INSTALLATIONS, A CATEGORY 5 CABLE MUST BE RUN FROM THE STORE CONTROLLER/SP TO THE FRONT DOOR (MAIN CUSTOMER ENTRANCE). IF A STORE HAS MULTIPLE CONTROLLERS, PLEASE CALL SHOPPER TRAK OR THE CLIENTS STORES SYSTEMS GROUP TO DETERMINE WHICH ONE WILL BE USED.
- 2. PROVIDE 15'-20' OF CABLE COILED UP AT EACH END OF THE RUN. AT THE FRONT DOOR LEAVE THE CABLE COIL IN A LOCATION THAT CAN BE REACHED USING AN 8' LADDER.



SPRING WOUND MANUAL BYPASS -TIMER WITH 0-2 HOUR RANGE WITHOUT HOLD FEATURE FOR GENERAL LIGHTING CONTACTOR TORK# A502HW

CONTRACTOR TO VERIFY EXACT CONFIGURATION REQUIRED WITH SPACE AVAILABLE. PROVIDE LABELS AS DIRECTED BY OWNER. SWITCHES SHALL NOT BE MOUNTED HIGHER THAN 48"



SWITCHES SHALL BE INSTALLED BETWEEN STUDS IN ROWS OF (6) SIX. DO NOT CUT STUDS TO ACCOMODATE À SINGLE ROW OF SWITCHES. CONTRACTOR SHALL LABEL LIGHT SWITCHES ACCORDINGLY. ALL FACES AND BODIES TO BE GREY.

2015 National Energy code

| RETAIL FITTING RM STOCK 5-100m RESTROOM TOTAL LIGHTING WAT FIXTURE C TRACK C N1 LED 6" LED [PL 24" PEN] BACKLIT | NADA | ENERG | Y CAL | CULATIO | DN | S |
|---|-------------|--------------|-------|-------------|----------|-------|
| AREA | | SQ. FT | SQ. M | ALLOWANCE | | TOTAL |
| SALES | | 1841 | 171 | 15.5 | | 2651 |
| RETAIL F | ITTING RM | 54 | 5 | 7.7 | | 39 |
| STOCK 5 | -100m | 252 | 23 | 6.8 | | 156 |
| RESTROO | М | 42 | 4 | 10.5 | | 42 |
| TOTAL LIC | CHTING WATT | TAGE ALLOWE | D | | 2 | 2888 |
| FIXTURE | | DESCRIPTION | | CALCULATIO | N | WATTS |
| С | TRACK CU | RRENT LIMITE | RS (| 13a x 120v: | = . | 1560 |
| N1 LED | 6" LED DO | OWNLIGHT | | 7 × 16 | \ | 112 |
| PL | 24" PENDA | ANT | | 1 x 28 : | = | 28 |
| | BACKLIT M | IRROR LIGHT | ING | 1 x 42 : | = | 42 |
| EXIST. | EXISTING 4 | 4' LINEAR ST | RIPS | 7 x 62 = | = | 434 |
| | | | | | | |

EXIST. RESTROOM INCANDESCENT

TOTAL LIGHTING WATTAGE INSTALLED

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LIGHTING KEYED NOTES

- $\langle 7 \rangle$ G.C. TO PAINT RING OF FIXTURE MATTE BLACK TO MATCH ADJACENT SURFACE

BY E.C. FOR AFTER BUSINESS HOURS.

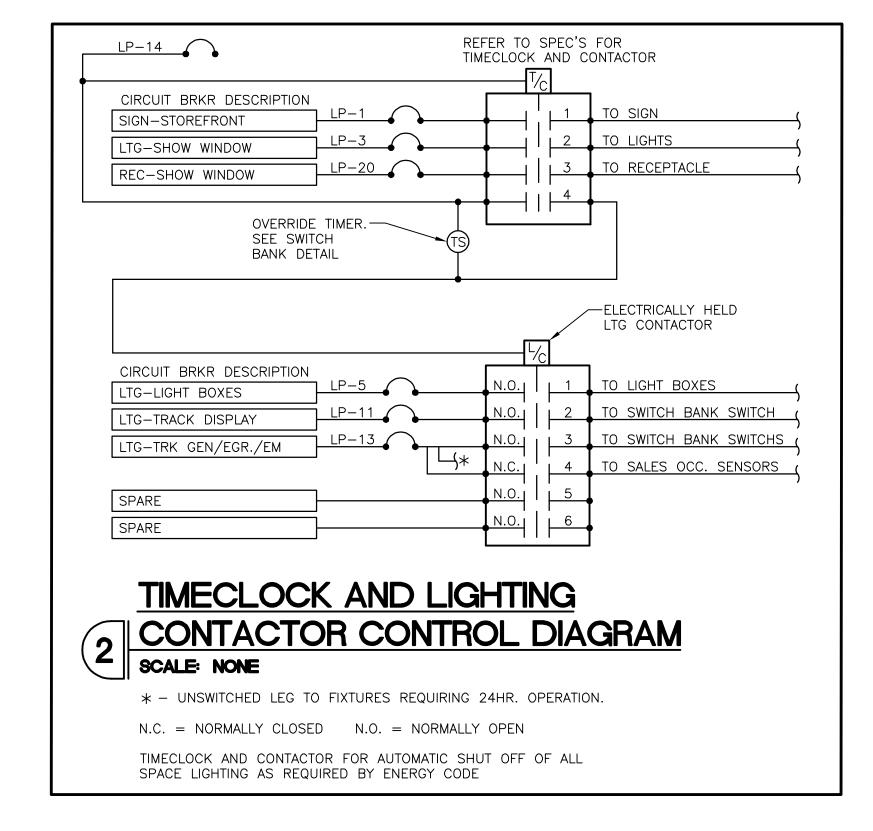
- (8) THIS SET OF TRACK LIGHTING SHALL BE WIRED THROUGH SINGLE CURRENT LIMITER. SEE FLOOR PLAN FOR TRACK CONNECTED TO THIS CURRENT LIMITER.
- (9) PENDANT MOUNT EMERGENCY LIGHTING IN STOCK ROOM AT SAME ELEVATION AS EXISTING STRIP LIGHTING.
- (10) ELECTRICAL CONTRACTOR TO CLEAN, RE-LAMP AS NECESSARY (AND RE-BALLAST IF NECESSARY) ALL EXISTING AND RELOCATED FIXTURES AS REQUIRED TO ENSURE THAT ALL FIXTURES IN THEIR FINAL PLACEMENT ARE FULLY FUNCTIONAL. REPLACE ANY BROKEN LENSES. NEW LAMPS, LENSES AND BALLAST IF NECESSARY WILL BE SUPPLIED BY ELECTRICAL CONTRACTOR. ENSURE ALL LIGHTING IS OF THE SAME LUMENS/COLOR.

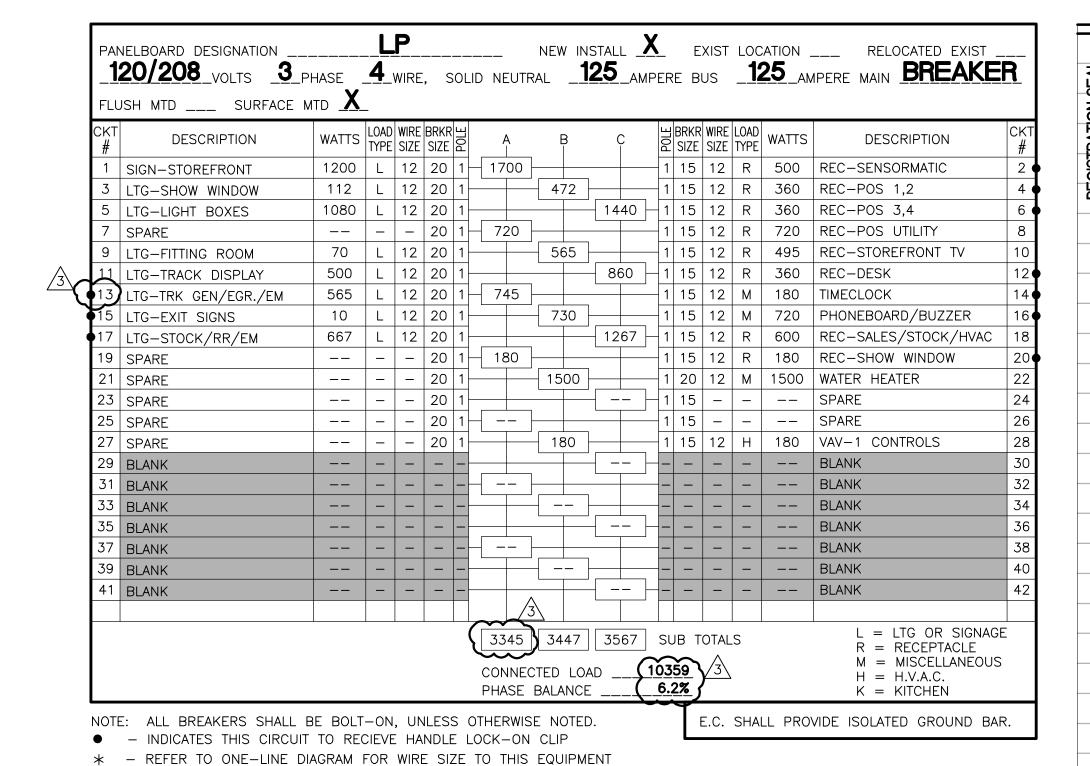
| | LIGHT FIXTURE SCHEDULE | | | | | | | | | | | | LAMP SCHEDULE | | | | DIMMING |
|------------------|------------------------|----------|-----------|--------------|--|--|--------------|-------|-----|-----|-----|-----|----------------|------------------|--------------------|------------------------------|--|
| <u> </u> | QTY | SYMBOL | TYPE | MANUFACTURER | CATALOG NO. | DESCRIPTION | REF NOTES | VOLTS | REC | SUR | PEN | WAL | LAMP/ FIXT | ′ WATTS/ LAMP | ' FIXTURE WATTS | MANUFACTURER/ CATALOG NO. | NOTES |
| | 95 | ∇ | С | JUNO | R541BL | BLACK TRACK HEAD | 1,3,4 | 120 | | Х | | | 1 | 10 | 10 | TCP LED12P30SD30KFLB | LINE VOLTAGE DIMMING TO 0% |
| | 1 | | CA | JUNO | R2FTBL | SINGLE CIRCUIT 24" TRACK BLACK FINISH | 1 | 120 | | | X | | | | NOT APPL | ICABLE — | |
| Y | 7 | | СВ | JUNO | R4FTBL | SINGLE CIRCUIT 48" TRACK BLACK FINISH | 1 | 120 | | | X | | | | NOT APPL | ICABLE — | |
| | 4 | | СС | JUNO | R6FTBL | SINGLE CIRCUIT 72" TRACK BLACK FINISH | 1 | 120 | | | X | | | | NOT APPL | LICABLE ——— | |
| | 24 | | CD | JUNO | R8FTBL | SINGLE CIRCUIT 96" TRACK BLACK FINISH | 1 | 120 | | | X | | | | NOT APPL | ICABLE — | |
| | 21 | • | CF | JUNO | R23BL | CENTER "MINI-CONNECTOR" FEED | 1 | 120 | | | × | | | | NOT APPL | ICABLE ———— | |
| $\left(\right]$ | 26 | - | CK | JUNO | SP24392BL | CONTINUATION KIT | 1 | 120 | | | × | | | | NOT APPL | ICABLE — | |
| Ī | 1 | - | CI | JUNO 3 | RCLF11BL TCL5BL | CURRENT LIMITING ELECTRIC FEED 5AMP CKT BREAKER BLACK FINISH | 1 | 120 | | | X | | NOT APPLICABLE | | | | |
| Ī | 1 | - | C2 | JUNO | RCLF11BL TCL8BL | CURRENT LIMITING ELECTRIC FEED 8AMP CKT BREAKER BLACK FINISH | 1 | 120 | | | × | | NOT APPLICABLE | | | | |
| | 7 | 0 | N1 LED | JUNO | TC22LED-G4- 14LM-35K-90CRI- MVOLT-ZT10 | DOWNLIGHT WITH BLACK CONE, WHITE TRIM RING TO BE PAINTED BLACK SEE KEY NOTES | 1 | 120 | X | | | | 1 | 16 | 16 | TCP LED12P30SD30KFLB | LINE VOLTAGE DIMMING TO 0% |
| İ | 1 | ⊕ | PL | SONNEMAN | 2315.25 | BRIGHT SATIN ALUMINUM 24" LED PENDANT LIGHT | 1 | 120 | | X | Х | | 1 | 28 | 28 | LED INCLUDED | 0-10V DIMMING TO 10% CONTRACTOR TO PROVIDE CABLI |
| İ | 13 | 4_4 | XA | EXITRONIX | LED-90-BL | EMERGENCY WALL PACK WITH 90 MIN BATTERY BACKUP | 1,3,4 | 120 | | Х | Х | | 2 | 1.1 | 11 | INCLUDED | |
| Ī | 1 | | | HERALIGHTING | EL/LED/46/3000/ 277/HO EL/LED/PC96 | BACKLIT MIRROR LIGHTING | 1 | 120 | | | | Х | 2 | 21 | 42 | INCLUDED | |

FIXTURES AND LAMPS SUPPLIED BY TENANT AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. . FIXTURES SHOWN WITH CROSS-HATCH ARE TO BE NIGHT LIGHTS.

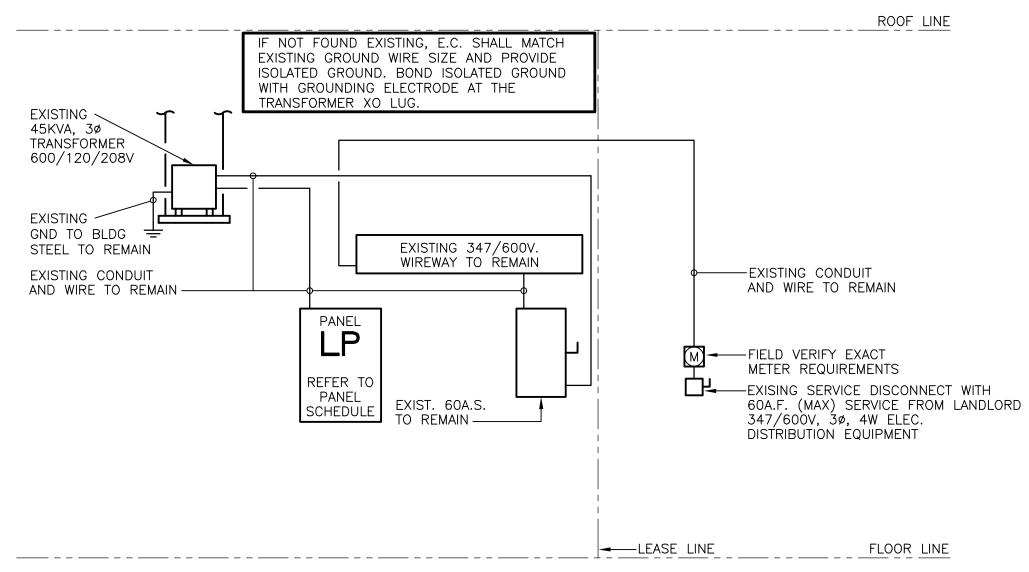
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- 3. FIXTURES USED FOR EXIT, EMERGENCY, OR NIGHT LIGHTING TO BE ON LOCKOUT CIRCUIT.
- I. ALL FIXTURES USED FOR EXIT. OR EMERGENCY LIGHTS TO HAVE 90 MINUTE BATTERY BACK UP.





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1 ELECTRICAL ONE-LINE DIAGRAM SCALE: NONE

- ALL WIRE SHALL BE COPPER ONLY, T90 OR RW90
 AS NOTED ON ELECTRICAL SPECIFICATIONS. ALL
 WIRING SHALL BE IN CONDUIT. WIRE AMPACITY BASED
 ON CEC.
- E.C. SHALL FURNISH ALL NEW ELECTRICAL EQUIP. (PANELS, TRANSFORMER, CONDUITS, WIRE, METERS, SERVICE FEEDERS AND CONDUIT, DISC SWITCHES, CONTACTORS, TIMECLOCKS, ETC) AS REQUIRED, UNLESS NOTED OTHERWISE.
- 3. ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMER, LIGHTS, DEVICES, CONDUIT, WIRE, ETC.) NOT BEING USED SHALL BE REMOVED FROM THE SITE. DO NOT ABANDON IN PLACE.
- 4. E.C. SHALL FIELD VERIFY ALL EXISTING ELECTRICAL EQUIPMENT. ALSO FIELD VERIFY THAT ANY EXISTING ELEC. EQUIPMENT TO BE REUSED IS OF ADEQUATE SIZE AND CONDITION TO MAINTAIN SAFE OPERATION. IF DISCREPANCIES ARISE CONTACT PROJECT REP.

| DESCRIPTION | TOTAL WATTS |
|-------------------------------------|-------------|
| TRACK 13A X 120V CURRENT LIMITER | 1560 |
| 25% CONTINUOUS LOAD | 390 |
| LIGHTING & SIGN | 3249 |
| 25% CONTINUOUS LOAD | 812 |
| MISC | 900 |
| RECEPTACLES | 3575 |
| WATER HEATER | 1500 |
| VAV-1 (CONTROLS) | 180 |
| TOTAL DEMAND WATTS | 12166 |
| TOTAL DEMAND AMPS (208V) | 33.8 |

GENERAL ELECTRICAL NOTES

- 1. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND SHALL IMMEDIATELY NOTIFY THE OWNER'S PROJECT MANAGER OF ANY DISCREPANCIES.
- 2. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. CONDUITS IN EXPOSED CEILING AREAS SHALL EXIT WALLS AS CLOSE TO ROOF/FLOOR STRUCTURAL DECK AS POSSIBLE.
- 3. ANY EXISTING MATERIALS OR EQUIPMENT NOT TO BE REUSED MUST BE COMPLETELY REMOVED AND DISPOSED OF PROPERLY THROUGH THE LANDLORD'S DESIGNATED AND APPROVED HAULER. NO EQUIPMENT OR COMPONENTS MAY BE ABANDONED WITHOUT WRITTEN PERMISSION OF THE LANDLORD.
- 4. ANY PENETRATIONS THROUGH FIRE RATED WALLS NEED TO BE APPROPRIATELY FIRE STOPPED TO RETAIN THE WALL'S RATING.
- 5. CONTRACTOR SHALL ENSURE LOADS BETWEEN PHASES ON PANEL BOARDS ARE BALANCED WITHIN 10%.
- 6. ALL LOW VOLTAGE WIRING IN CEILING PLENUM (INCLUDING TELEPHONE. DATA, ALARM AND TEMP. CONTROL WIRING) SHALL BE UL LISTED TEFLON PLENUM CABLE.

| SYMBOL LEGEND | | | | | |
|------------------|------------------------------|--|--|--|--|
| Ф | UNIPLEX RECEPTACLE (SINGLE) | | | | |
| Ф | DUPLEX RECEPTACLE | | | | |
| | DUPLEX FLOOR MOUNTED | | | | |
| | DUPLEX ISOLATED GROUND | | | | |
| | DUPLEX FLOOR MTD ISO GRD | | | | |
| Ö | DUPLEX SPECIAL LOCATION | | | | |
| | QUADPLEX RECEPTACLE | | | | |
| | QUADPLEX FLOOR MOUNTED | | | | |
| # | QUADPLEX ISOLATED GROUND | | | | |
| | QUADPLEX FLOOR MTD ISO GRD | | | | |
| # | QUADPLEX SPECIAL LOCATION | | | | |
| \bigcirc | SPECIAL VOLTAGE OR AMPERAGE | | | | |
| Ф | SPECIAL VOLTAGE OR AMPERAGE | | | | |
| | MULTI-OUTLET PLUGMOLD | | | | |
| lacktriangledown | DUAL PORT OUTLET | | | | |
| ▼ | TELEPHONE OUTLET | | | | |
| | JUNCTION BOX | | | | |
| (| DATA OUTLET | | | | |
| • | DOORBELL PUSHBUTTON | | | | |
| 8 | DOORBELL | | | | |
| B_T | DOORBELL LOW-VOLT TRANS | | | | |
| - | LOW-VOLTAGE TRANSFORMER | | | | |
| <u></u> | DISCONNECT SWITCH | | | | |
| | TELEPHONE BOARD | | | | |
| | ELECTRICAL PANEL | | | | |
| KVA | TRANSFORMER | | | | |
| √_ | TIME CLOCK | | | | |
| \$ | WALL SWITCH | | | | |
| Ф | WALL DIMMER SWITCH | | | | |
| OS | WALL MTD OCCUPANCY SENSOR | | | | |
| <u>(S</u> | CEILING OCCUPANCY SENSOR | | | | |
| | CIRCUIT HOME RUN | | | | |
| | CONDUIT THRU/BELOW FLOOR | | | | |
| - | CONDUIT STUBBED UP/DOWN | | | | |
| N.L. | NIGHT LIGHT | | | | |
| VIA T/C | TIMECLOCK CONTROLLED CIRCUIT | | | | |

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THE GENERAL PROVISIONS OF THE CONTRACT INCLUDING ANY GENERAL AND SUPPLEMENTAL CONDITIONS AND GENERAL REQUIREMENTS APPLY TO THE WORK IN THIS SECTION. BEFORE SUBMITTING A BID, EXAMINE ALL MECHANICAL, ARCHITECTURAL, AND/OR STRUCTURAL DOCUMENTS, VISIT THE SITE AND GET ACQUAINTED WITH ALL CONDITIONS THAT MAY IN ANY WHATSOEVER AFFECT THE EXECUTION OF THIS CONTRACT. TAKE MEASUREMENTS AND BE RESPONSIBLE FOR EXACT SIZE AND LOCATIONS OF ALL OPENINGS REQUIRED FOR THE INSTALLATION OF WORK. FIGURED DIMENSIONS ARE REASONABLY ACCURATE AND SHOULD GOVERN IN SETTING OUT WORK. WHERE DETAILED METHOD OF INSTALLATION IS NOT INDICATED OR WHERE VARIATIONS EXIST BETWEEN DESCRIBED WORK AND APPROVED PRACTICE, DIRECTION OF THE OWNER'S REPRESENTATIVE ON JOB SITE SHALL BE FOLLOWED.

THE CONTRACT INCLUDES ALL ITEMS OF MATERIAL AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION AND FULL OPERATION OF THE ELECTRICAL WORK AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. ALL WORK, MATERIALS, AND EQUIPMENT SHALL HAVE A ONE YEAR WARRANTY AFTER ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTIVE ITEMS SHALL BE REMOVED AND REPLACED AT THE ELECTRICAL SUB-CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER

PERFORM WORK UNDER THIS CONTRACT IN CLOSE HARMONY WITH OTHER CONTRACTORS SO COMPLETED WORK SHALL PRESENT A NEAT AND WORKMANLIKE INSTALLATION. EXPOSED FINISHED MATERIALS AND EQUIPMENT SHALL BE CAREFULLY CLEANED AND WIPED TO REMOVE GREASE, SMUDGES, DUST AND OTHER SPOTS AND LEFT SMOOTH AND CLEAN. DURING THE PROGRESS OF THE WORK, THE ELECTRICAL SUB-CONTRACTOR SHALL CAREFULLY CLEAN UP AFTER HIS MEN AND SHALL LEAVE THE PREMISES AND ALL PORTIONS OF THE BUILDING IN WHICH HE IS WORKING FREE OF DEBRIS AND IN A CLEAN AND SAFE CONDITION.

TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR EQUIPMENT CONNECTORS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTORS AND TERMINALS TO COMPLY WITH TIGHTENING TORQUES SPECIFIED IN

WHENEVER THE WORDS "CONTRACTOR", "THIS CONTRACTOR", ETC. APPEAR ON DRAWINGS OR IN THESE SPECIFICATIONS FOR THE ELECTRICAL WORK, IT SHALL REFER TO THE ELECTRICAL SUB-CONTRACTOR, WHENEVER THE WORD "PROVIDE" APPEARS IN THESE DOCUMENTS, IT SHALL BE INTERPRETED TO MEAN "FURNISH & INSTALL"

OUTLET MOUNTING HEIGHTS AS INDICATED ON THE PLANS ARE APPROXIMATE TO BE USED FOR BIDDING PURPOSES ONLY. THE EXACT MOUNTING HEIGHT OF OUTLETS SHALL BE DETERMINED IN THE FIELD WITH RELATION TO ARCHITECTURAL DETAILS AND FOLIPMENT BEING SERVED. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE OUTLET LOCATION WITH EQUIPMENT. THE OWNER'S REPRESENTATIVE SHALL BE PERMITTED TO RELOCATE ANY OUTLET PRIOR TO INSTALLATION WITHIN A 15 FOOT LIMIT AT NO ADDITIONAL CHARGE IN CONTRACT PRICE. ALL FASTENERS. HANGERS AND METHODS OF HANGING EXPOSED WORK IN FINISHED AREAS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE INSTALLATION, IF DURING CONSTRUCTION IF BECOMES APPARENT THAT CERTAIN MINOR CHANGES IN LAYOUT WILL EFFECT A NEATER JOB OR BETTER ARRANGEMENT, SUCH ALTERATIONS SHALL BE MADE AS PART OF THE CONTRACT. ENGINEER'S APPROVAL SHALL BE OBTAINED BEFORE MAKING SUCH CHANGES. WORKMANSHIP THROUGHOUT SHALL CONFORM TO THE STANDARDS OF BEST PRACTICE, MARKS, DENTS OR FINISH SCRATCHES WILL NOT BE PERMITTED ON ANY EXPOSED MATERIALS, FIXTURES OR FITTINGS. INSIDE OF PANELS & EQUIPMENT BOXES SHALL BE LEFT

THE SYSTEM SHALL RING ENTIRELY FREE FROM GROUND WHEN TESTED OUT IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTRUCTION OF EACH SYSTEM TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. UPON COMPLETION OF THE JOB, THIS CONTRACTOR SHALL FURNISH THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS ON ALL ELECTRICAL SYSTEMS INSTALLED.

THE ELECTRICAL CONTRACTOR SHALL CONSULT THE PLANS OF ALL OTHER TRADES IN ALL INSTANCES BEFORE INSTALLING HIS WORK SO THAT HIS PIPING WILL NOT INTERFERE WITH THOSE BRANCHES. IN THE EVENT OF A CONFLICT, THIS CONTRACTOR SHALL REPORT TO THE OWNER'S REPRESENTATIVE AT ONCE AND DO NO FURTHER WORK TO BE INSTALLED LINTU A SATISFACTORY ARRANGEMENT IS DECIDED UPON. ANY WORK DONE. OR EQUIPMENT PLACED IN POSITION BY THIS CONTRACTOR. CREATING A CONFLICT IN VIOLATION HEREOF, SHALL BE READJUSTED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE EXPENSE OF THE CONTRACTOR. THE DECISION OF THE OWNER'S REPRESENTATIVE SHALL BE FINAL IN REGARD TO CHANGES DUE TO CONFLICTING CONDITIONS.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS <u>ONLY</u> FOR ITEMS OF MATERIAL AND EQUIPMENT DIFFERENT THEN THOSE ALREADY CALLED FOR WITHIN THESE DRAWINGS FOR APPROVAL BY THE ENGINEER. THE CONTRACTOR IS NOT AUTHORIZED TO PURCHASE ANY MATERIAL UNTIL SUCH APPROVAL IS OBTAINED. A MINIMUM OF SIX SEPARATE SETS OF DRAWINGS IS REQUIRED AND WILL BE DISTRIBUTED AS FOLLOWS: 1 COPY FOR ENGINEER'S FILE; 1 COPY FOR ARCHITECT'S FILE; 2 COPIES FOR THE OWNER'S FILE; 2 COPIES FOR THE CONTRACTOR. SHOP DRAWINGS SHALL BE NEATLY BOUND IN A FLAT RING BINDER HAVING JOB NAME AND CONTRACTOR'S NAME ON COVER. A SINGLE SUBMISSION IS PREFERRED HAVING ALL ITEMS INCLUDED. LOOSE SHEET OR INCOMPLETE SUBMITTALS WILL NOT BE ACCEPTED. ALL ITEMS OF MATERIAL TO BE SUPPLIED WHICH DO NOT REQUIRE SHOP DRAWING SUBMISSION SUCH AS CONDUIT, WIRE, BOXES, ETC., SHALL BE LISTED AS SEPARATE MATERIAL SHOWING MANUFACTURER'S NAME AND CATALOG NUMBER AND TYPE AND SHALL BE INCLUDED WITH SHOP DRAWINGS SUBMITTAL.

RECORD DRAWINGS AND OPERATING INSTRUCTIONS & SERVICE MANUAL

TWO SETS OF MECHANICAL/ELECTRICAL DRAWINGS SHALL BE PROVIDED AS RECORD DRAWINGS WHICH SHALL BE SEPARATE, CLEAN, SEPIA REPRODUCIBLES REŚERVED FOR THE PURPOSE OF SHOWING A COMPLETE PICTURE OF THE WORK AS ACTUALLY INSTALLED THESE DRAWINGS SHALL ALSO SERVE AS WORK PROGRESS REPORT SHEETS AND THE ELECTRICAL SUB-CONTRACTOR SHALL MAKE ANY NOTATIONS, NEAT AND LEGIBLE THEREON DAILY AS WORK PROCEEDS. THE DRAWINGS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES AND SHALL BE KEPT AT THE JOB AT A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. AT THE COMPLETION OF THE WORK, THESE RECORD DRAWINGS SHALL BE SIGNED BY THE ELECTRICAL SUB-CONTRACTOR, DATED AND RETURNED TO THE OWNER'S REPRESENTATIVE, FINAL PAYMENT OF CONTRACT WILL NOT BE MADE UNTIL RECEIPT AND REVIEW OF SAID DRAWINGS. PROVIDE TWO NEATLY BOUND (WITH TABBED SECTIONS) COPIES OF MAINTENANCE AND INSTRUCTION BOOKS. PARTS LIST PERTAINING TO ALL EQUIPMENT FURNISHED. SUBMIT TO THE OWNER'S REPRESENTATIVE FOR APPROVAL, FINAL PAYMENT WILL NOT BE MADE UNTIL DRAWINGS FOR RECORD, MAINTENANCE AND INSTRUCTION MANUALS ARE DELIVERED TO THE OWNER'S REPRESENTATIVE.

PERMITS AND REGULATIONS

THE LATEST EDITION OF THE CANADA ELECTRIC CODE SHALL BE THE MINIMUM REQUIREMENT FOR ALL WORK. ALL ELECTRICAL MATERIALS USED IN THIS WORK AND ALL WORKMANSHIP AND TESTS PERFORMED THEREIN, UNLESS SPECIFICALLY SPECIFIED SHALL CONFORM TO THE LATEST RULES AND REGULATIONS AND SPECIFICATIONS OF THE CANADA BOARD OF FIRE UNDERWRITERS, LOCAL AND CANADA CODES AND AUTHORITIES HAVING JURISDICTION AND UTILITY COMPANY. EXAMINE THE DRAWINGS AND SPECIFICATIONS FOR COMPLIANCE WITH PREVAILING CODES. REGULATIONS AND ORDINANCES AND BASE BID AND WORK ACCORDINGLY. ANY MINOR DISCREPANCY BETWEEN THESE DRAWINGS/SPECIFICATIONS AND CODES. LAWS. ORDINANCES. RULES AND REGULATIONS SHALL B CORRECTED BY THIS CONTRACTOR AS RÉQUIRED WITHOUT ANY ADDITIONAL REIMBURSEMENT. MAJOR DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER (IN WRITING), PRIOR TO INSTALLATION, ALONG WITH THE CONTRACTOR'S PROPOSED COST FOR CORRECTION. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS OR CERTIFICATES OF INSPECTION AND APPROVAL REQUIRED FOR THIS BRANCH OF THE WORK. OWNER SHALL BE FURNISHED WITH CERTIFICATES OF FINAL INSPECTION AND APPROVAL PRIOR TO FINAL ACCEPTANCE OF THIS BRANCH OF THE WORK.

THE SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE INTENDED TO DESCRIBE THE SCOPE OF ALL FLECTRIC/MECHANICAL WORK I'HE DRAWINGS ARE AN OUTLINE TO INDICATE THE APPROXIMATE LOCATION AND ARRANGEMENT OF RACEWAYS. WIRING AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE IN EXECUTING OF THE WORK. SHOULD THERE BE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, THIS CONTRACTOR SHALL REFER THE MATTER TO THE OWNER'S REPRESENTATIVE FOR A DECISION AS TO METHOD OR MATERIAL. ELECTRICAL CONTRACTOR SHALL REFER TO DRAWINGS OF ALL OTHER TRADES FOR DETAILS, DIMENSIONS AND LOCATIONS OF OTHER WORK AND ROUTE HIS WORK SO AS NOT TO CONFLICT WITH ANY OTHER BRANCH. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING QUANTITIES OF EQUIPMENT MENTIONED IN THE SPECIFICATIONS WITH THOSE SHOWN ON THE DRAWINGS. IF DISCREPANCIES ARE NOTED, PROVIDE THE GREATER OF THE QUANTITIES OR THE BETTER OF THE

6. MATERIALS AND EQUIPMENT

ALL MATERIALS AND EQUIPMENT SHALL BE NEW. ALL MATERIALS, APPARATUS AND EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES INC. LABEL WHERE REGULARLY SUPPLIED. CERTAIN MANUFACTURERS OF MATERIAL AND FOLIPMENT ARE SPECIFIED AND PLANS ARE DETAILED ACCORDING TO THIS MATERIAL. THIS CONTRACTOR SHALL BASE HIS BID ON FURNISHING AND INSTALLING THIS MAKE OF MATERIAL AND EQUIPMENT. WHERE MORE THAN ONE MAKE OF MATERIAL OR EQUIPMENT IS SPECIFIED, THE CONTRACTOR SHALL STATE IN HIS BID WHICH MAKE HE PROPOSES TO FURNISH.

PROVIDE MANUFACTURER'S STANDARD SELF-ADHESIVE VINYL TAPE NOT LESS THAN 3 MILS THICK BY 1-1/2" WIDE. WHERE APPLICABLE, INSTALL ON ALL CONCEALED RACEWAYS AT CONNECTION TO ALL JUNCTION BOXES, PULL BOXES, EQUIPMENT, WALL/FLOOR/, ETC. UNLESS OTHERWISE INDICATED OR REQUIRED BY GOVERNING REGULATIONS, PROVIDE ORANGE TAPE WITH BLACK

PROVIDE CIRCUIT IDENTIFICATION BANDS FOR ALL CABLES AND CONDUCTORS. PROVIDE MANUFACTURER'S STANDARD COLOR CODING FOR CABLE/CONDUCTOR JACKET AND/OR INSULATION FOR ALL CABLES AND CONDUCTORS OF ALL SYSTEMS. MATCH IDENTIFICATION WITH MARKING SYSTEM USED IN EXISTING SYSTEMS (WHERE APPLICABLE), SHOP DRAWINGS, CONTRACT DOCUMENTS, AND SIMILAR PREVIOUSLY ESTABLISHED IDENTIFICATION FOR PROJECT'S ELECTRICAL WORK. PROVIDE ON ALL CONDUCTORS OF ALL SYSTEMS. INSTALL ENGRAVED PLASTIC-LAMINATE SIGN ON MAJOR UNITS OF ELECTRICAL EQUIPMENT, INCLUDING CENTRAL OR MASTER UNIT OF

EACH ELECTRICAL SYSTEM INCLUDING COMMUNICATION/CONTROL/SIGNAL SYSTEMS, UNLESS UNIT IS SPECIFIED WITH ITS OWN SELF-EXPLANATORY IDENTIFICATION OR SIGNAL SYSTEM. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, 1/2" HIGH LETTERING, ON 1-1/2" HIGH SIGN (2" HIGH WHERE 2 LINES ARE REQUIRED), WHITE LETTERING IN BLACK FIELD. UNLESS DÉTERMINED OTHERWISE IN FIELD, PROVIDE TEXT MATCHING TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. SECURE TO SUBSTRÁTE WITH FASTENERS, EXCEPT USE ADHESIVE WHERE FASTENERS SHOULD NOT OR CANNOT PENETRATE SUBSTRATE AS A MINIMUM PROVIDE SIGNS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL WORK WHERE SUCH WORK EXISTS ON THE PROJECT ALL STARTERS AND DISCONNECTS: ALL REMOTE FIXTURE OR FOUIPMENT SWITCHING DEVICES (VIA ENGRAVED WALLPLATES); ALL SYSTEM DEVICES, PORTS, TAPS, J.B.'S, P.B.S, ETC.; PANELBOARDS, ELECTRICAL CABINETS; ANY OTHER EQUIPMENT DESIGNATED BY OWNER OR ENGINEER IN FIELD.

ALL EQUIPMENT & SYSTEM IDENTIFICATION NOMENCLATURE SHOWN ON DRAWINGS OR LISTED HEREIN IS SHOWN FOR GENERAL DESIGN INSTALLATION REFERENCE ONLY. THE ACTUAL NAMEPLATE, ETC. NOMENCLATURE FOR THIS PROJECT SHALL BE VERIFIED BY ELECTRICAL CONTRACTOR IN FIELD PRIOR TO FABRICATION AND WHERE APPLICABLE, SHALL BE AN EXTENSION OF EXISTING NOMENCLATURE USED ON THE SITE AS DETERMINED IN FIELD BY ELECTRICAL CONTRACTOR.

IN ADDITION TO THE ABOVE, ALL LABELING FOR ALL ELECTRICAL WIRING WORK (FOR ALL SYSTEMS) SHALL BE 3M DCI NO. 054007-11954 "SWD" WRITE-ON TAPE DISPENSER KIT WITH FACTORY PROVIDED SPECIAL FAST DRYING MARKER INCLUDED WITH KIT. ALL MARKINGS SHALL BE CLEAR AND LEGIBLE.

AS DETERMINED IN FIELD, PROVIDE COLOR CODING FOR JUNCTION BOXES, PULL BOXES AND ASSOCIATED PLATES TO MATCH EXISTING BUILDING STANDARDS. THE FOLLOWING INSULATION COLOR CODE SHALL BE USED FOR SYSTEM AND VOLTAGE IDENTIFICATION FOR

374/600V SYSTEM - BROWN, ORANGE, YELLOW & GRAY (NEUTRAL) 120/208V SYSTEM - BLACK, RED, BLUE & GRAY (NEUTRAL)

SYSTEMS - TO MATCH EXISTING - VERIFY IN FIELD.

ALL METALLIC CONDUIT, SURFACE WIREWAYS, SUPPORTS, CABINET AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST ISSUE OF THE CANADA ELECTRICAL CODE AND AS SHOWN ON PLANS. THE GROUND TERMINALS OF RECEPTACLES SHALL BE CONNECTED TO THE EQUIPMENT GROUND BUS OF THE SOURCE BRANCH CIRCUIT PANELBOARD. ALL GROUNDING CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY. ALL CONNECTIONS TO EQUIPMENT OR CONDUIT SHALL BE MADE WITH AN APPROVED CONDUCTOR AND SAME SHALL BE BOLTED OR CLAMPED TO EQUIPMENT AND CONDUIT. ALL CONTACT SURFACES SHALL BE THOROUGHLY CLEANED AND BRIGHT BEFORE CONNECTIONS TO INSURE A GOOD METAL CONTACT.

ALL NEW FEEDERS AND BRANCH CIRCUITING INSTALLED UNDER THIS CONTRACT SHALL BE PROVIDED WITH EQUIPMENT GROUNDING CONDUCTORS SIZED AND INSTALLED IN ACCORDANCE WITH LATEST ISSUE OF THE CANADA ELECTRICAL CODE AS SHOWN ON PLANS.

ALL WIRING FOR DIFFERENT POWER VOLTAGES SHALL BE INSTALLED IN RACEWAY SYSTEMS SEPARATE FROM EACH OTHER (I.E. 24V SEPARATE FROM 120/208V). ONLY VOICE AND DATA CABLES MAY SHARE RACEWAYS.

ALL WIRING SHALL BE RUN IN CONDUIT. THIN WALL EMT CONDUIT SHALL BE USED, SIZES 3/4" (MINIMUM) THROUGH 2-1/2". ALL CONDUITS LARGER THAN 2-1/2" SHALL BE HEAVYWALL. CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SLABS SHALL BE PVC JACKETED FLEXIBLE STEEL CONDUIT. SEALTITE SHALL BE USED IN WET AREAS AND ON ALL MOTORIZED EQUIPMENT. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS. NO BX, ROMEX, ARMORED CABLE, ETC. SHALL BE ALLOWED. ALL VISIBLE CONDUIT SHALL BE RIGID. ALL FITTINGS FOR SAME SHALL BE SET SCREW TYPE STEEL, WITH INSULATED THROATS. ALL WIRING OF ALL SYSTEMS SHALL BE INSTALLED IN CONDUIT UNLESS SPECIFICALLY INDICATED OTHERWISE HEREIN OR ON DRAWINGS.

EXPOSED CONDUIT SHALL BE SECURELY SUPPORTED IN PLACE PER CODE BUT ON A MAXIMUM OF 10 FOOT INTERVALS. WITHIN THREE FEET OF EACH BEND, AT EVERY OUTLET OR JUNCTION BOX AND AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPE WORK. CONDUITS SHALL BE RUN PARALLEL TO AND AT RIGHT ANGLES TO THE BUILDING LINES. GENERALLY, CONDUIT SHALL BE RUN IN CONTACT WITH STRUCTURAL PARTS OF THE BUILDING SO AS TO AVOID SUSPENDED LENGTHS OF CONDUIT. CONDUIT SHALL BE INSTALLED AS TO BE ACCESSIBLE FOR REPLACEMENT AND MAINTENANCE AND GENERALLY, CONDUIT SHALL BE INSTALLED TO PERMIT DRAINAGE.

CONDUIT RUNS EXCEEDING 100 FEET IN LENGTH OR HAVING IN EXCESS OF THREE 90 DEGREE TURNS SHALL BE PROVIDED WITH PULL BOXES. CONDUIT FILL SHALL NOT EXCEED 30 PERCENT. ALL CONDUIT SYSTEMS (INCLUDING J.B.'S, P.B.'S, ETC.) SHALL BE PERMANENTLY IDENTIFIED. NEW BRANCH CIRCUIT HOME-RUN CONDUITS SHALL BE NO LARGER THAN 1-1/4" DIAMETER. CONDUIT FILL SHALL NOT EXCEED CEC REQUIREMENTS.

CONDUIT SHALL BE CLEANED INSIDE BEFORE ANY WIRES ARE PULLED, CONDUIT ENDS SHALL BE CAPPED AND PLUGGED WITH STANDARD ACCESSORIES AS SOON AS CONDUIT HAS BEEN PERMANENTLY INSTALLED. CONDUIT INSTALLED WITHOUT CONDUCTORS

ALL JOINTS SHALL BE MADE TIGHT WITH WATERTIGHT COUPLINGS MATCHING CONDUIT AND ALL CORNERS SHALL BE MAKE WITH LONG RADIUS. THE ENDS OF ALL CONDUITS SHALL BE CUT SQUARE AND REAMED AND ALL JOINTS BROUGHT TO A SHOULDER. CONDUIT SHALL BE CONTINUOUS BETWEEN OUTLETS TO MAKE A COMPLETE INSTALLATION AND TO EFFECT A CONTINUOUS GROUND. SUITABLE

CONDUIT SHALL BE SUPPORTED BY APPROVED STRAPS, FASTENERS AND HANGERS. HANGERS SHALL BE SUSPENDED FROM RODS. PERFORATED STRAPS WILL NOT BE ACCEPTABLE. FASTENERS SHALL BE LEAD EXPANSION SHIELDS IN BLOCK OR CONCRETE, TOGGLE BOLTS IN HOLLOW WALLS. MACHINE SCREWS ON METAL SURFACES AND WOOD SCREWS ON WOOD CONSTRUCTION. ALL CONDUIT SHALL SUPPORTED INDEPENDENTLY FROM ALL OTHER BUILDING SYSTEMS AND SHALL BE SUPPORTED DIRECTLY FROM STRUCTURAL

PROVIDE SLEEVES FOR ALL FIRE WALL AND SMOKE PARTITION PENETRATIONS (SEALED ACCORDINGLY). ALL RACEWAYS SHALL BE ENTIRELY FREE OF PLASTER, MORTAR, WATER AND OTHER FOREIGN MATTER. RACEWAYS INSTALLED UNDER THIS CONTRACT WITHOUT CONDUCTORS SHALL HAVE BALING WIRE LEFT IN RACEWAYS FROM OUTLET TO OUTLET FOR FUTURE PULLING OF CONDUCTORS. RACEWAYS OPEN ENDS SHALL BE PLUGGED OR CAPPED IN AN APPROVED MANNER.

WHERE "FISHING" THROUGH EXISTING HOLLOW PARTITIONS IS MANDATORY, USE MINIMUM 3/4" "GREENFIELD" (STEEL) FOR LOW VOLTAGE CABLING AND METAL-CLAD/ARMORED CABLE (LISTED FOR USE IN HEALTH CARE FACILITIES) FOR POWER. OTHERWISE TYPE MC/AC CABLE MAY ONLY BE USED FOR 6' FIXTURE WHIPS, UNLESS CASE-BY-CASE PERMISSION IS GRANTED BY ENGINEER AND

METHOD OF WIRING — POWER

A GROUNDED CONDUCTOR (NEUTRAL) SHALL BE INSTALLED WITHIN EACH JBOX INTENDED FOR THE INSTALLATION OF A LIGHTING CONTROL DEVICE (TOGGLE SWITCH, DIMMER, OCCUPANCY SENSOR, PHOTOCELL, ETC). CURRENT OR FUTURE DEVICES MAY REQUIRE LINE-TO-NEUTRAL VOLTAGE TO OPERATE THE ELECTRONICS OF THE DEVICE IN STANDBY MODE. ELECTRONIC CONTROL DEVICES SHALL NOT INTRODUCE CURRENT ON THE EQUIPMENT GROUNDING CONDUCTOR DURING NORMAL OPERATION.

T IS PREFERRED A SEPARATE NEUTRAL BE USED WHEN POSSIBLE. PER THE CEC, IF A NEUTRAL IS SHARED, ALL UNGROUNDED CONDUCTORS OF A MULTIWIRE BRANCH CIRCUIT MUST BE SIMULTANEOUSLY DISCONNECTED TO REDUCE THE RISK OF SHOCK TO PERSONNEL WORKING ON EQUIPMENT SUPPLIED BY A MULTIWIRE BRANCH CIRCUIT. FOR A SINGLE PHASE INSTALLATION, TH SIMULTANEOUS DISCONNECTION CAN BE ACHIEVED BY TWO SINGLE POLE CIRCUIT BREAKERS WITH AN IDENTIFIED HANDLE TIE OR BY A -POLE SWITCH OR CIRCUIT BREAKER. FOR A 3-PHASE INSTALLATION, A 3-POLE CIRCUIT BREAKER OR THREE SINGLE POLE CIRCUIT BREAKERS WITH AN IDENTIFIED HANDLE TIE PROVIDES THE REQUIRED SIMULTANEOUS DISCONNECTION OF THE UNGROUNDED CONDUCTORS. WHERE FUSES ARE USED FOR BRANCH CIRCUIT OVERCURRENT PROTECTION, A 2-POLE OR 3-POLE SWITCH IS

NEATLY DRESS ALL WORK. INSTALL ALL WORK PARALLEL AND PERPENDICULAR TO SURFACES OR EXPOSED STRUCTURAL MEMBERS. AND FOLLOW SURFACE CONTOURS, WHERE POSSIBLE. KEEP CONDUCTOR SPLICES TO MINIMUM. INSTALL SPLICE AND TAP CONNECTORS WHICH POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATING THAN CONDUCTORS BEING SPLICED. USE SPLICE AND TAP CONNECTORS WHICH ARE COMPATIBLE WITH CONDUCTOR MATERIAL. ALL WIRES SHALL BE RUN CONTINUOUS FROM OUTLET TO OUTLET/FIXTURE TO FIXTURE. INSULATION VALUE OF JOINTS TO BE 100% IN EXCESS OF WIRE. PROVIDE ADEQUATE LENGTH OF CONDUCTORS WITHIN ELECTRICAL ENCLOSURES AND TRAIN THE CONDUCTORS TO TERMINAL POINTS WITH NO EXCESS. BUNDLE MULTIPLE CONDUCTORS, WITH CONDUCTORS LARGER THAN NO 10 AWG CABLED IN INDIVIDUAL CIRCUITS. MAKE TERMINATIONS SO THERE IS NO BARE CONDUCTOR AT THE TERMINAL.

BRANCH SUBFEEDER CIRCUITS SHALL BE INSTALLED AS SHOWN ON THE FLOOR PLANS. WHERE OUTLETS ARE INDICATED BY LETTER: ON PLANS, THEY SHALL BE CONTROLLED BY CORRESPONDING SWITCHES. NO WIRE SIZE SMALLER THAN NO. 12 SHALL BE USED FOR ANY BRANCH CIRCUIT UNLESS OTHERWISE NOTED ON PLANS FOR CONTROL CIRCUITS. LARGER SIZES SHALL BE USED WHERE REQUIRED AND/OR INDICATED ON THE PLANS. DISTANCES FROM PANEL TO FIRST OUTLET OF A 15 OR 20 AMPERE BRANCH CIRCUIT SHALL REQUIRE THE FOLLOWING MINIMUM WIRE SIZE TO THE FIRST OUTLET.

UP TO 100 FEET: 100 TO 200 FEET: MORE THAN 200 FEET: # 8

ALL BRANCH CIRCUITS MORE THAN 200 FEET IN LENGTH SHALL BE MINIMUM NO. 10 TO THE LAST OUTLET. CONTROL CIRCUITS SHALL BE NO. 14 EXCEPT FOR RUNS EXCEEDING 300 FEET WHERE THEY SHALL BE NO. 12. OUTLETS SHALL BE LOCATED APPROXIMATELY S SHOWN ON THE PLANS AND SHALL BE WIRED TO PROVIDE CONTROL OF OUTLETS INDICATED. ALL WIRES OF ANY ONE CIRCUIT

ALL WIRES SHALL BE RUN CONTINUOUS FROM OUTLET TO OUTLET. INSULATION VALUE OF JOINTS TO BE 100% IN EXCESS OF WIRE. MECHANICAL WIRE SPLICERS SHALL BE SCOTCHLOCK INSULATED TYPE, T&B STAKON OR APPROVED EQUAL. THE CONDUCTORS TERMINATING AT EACH WIRED OUTLET SHALL BE LEFT NOT LESS THAN 8" LONG AT THEIR OUTLET FITTINGS TO FACILITATE INSTALLMENT OF DEVICES OF FIXTURES. FRICTION AND RUBBER TAPE CONFORM TO FEDERAL SPECIFICATIONS HH-T-11 AND HH-T-111. PLASTIC ELECTRICAL TAPE SHALL BE SCOTCH #33+ OR APPROVED EQUA

TYPE MC CABLE SHALL BE FORMED FROM CONTINUOUS LENGTH OF SPIRALLY WOUND, INTERLOCKED ZINC-COATED OR GALVANIZED (INSIDE & OUTSIDE) STRIP STEEL. ALL CONDUCTORS SHALL BE RATED FOR 90 DEG. C. MINIMUM. PROVIDE WITH FULL PARITY SIZED GREEN INSULATED EQUIPMENT GROUND CONDUCTOR. PROVIDE COMPATIBLE STEEL FITTINGS WITH INTEGRAL RED PLASTIC INSULATED THROAT BUSHINGS, COMPLIANT WITH CEC. CABLES SHALL BE 90 DEG. C. RATED WITH ALL COMPONENTS AND FITTINGS LISTED FOR

A) UL STD.4 AND UL STD. 83. b) ANSI E119 AND E814. c) CEC

TYPE MC CABLE MAY BE UTILIZED ONLY IF CEC APPROVED AND IF APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION AND IF INCLUDED IN THE LIMITED APPLICATIONS DEFINED BELOW.

1) ALL NEW 15 OR 20 AMPERE BRANCH CIRCUIT WORK. THIS SHALL APPLY ONLY UNDER ALL OF THE FOLLOWING CIRCUMSTANCES

a) ONLY WHERE CONCEALED (ALL EXPOSED WIRING SHALL BE INSTALLED IN CONDUIT).

b) ROUTE ALL CABLES PERPENDICULAR AND PARALLEL TO THE BUILDING ARCHITECTURAL LINES/SURFACES/STRUCTURAL MEMBERS. KÉEPING OFFSETS TO A MINIMUM AND FOLLOWING SURFACE CONTOURS WHERE POSSIBLE. MAINTÁIN A UNIFÓRM ELEVATION FOR ALL CABLE RUNS WHEREVER POSSIBLE. ALL CABLES SHALL BE SUPPORTED/ANCHORED AT MAXIMUM 4 FOOT INTERVALS AND WITHIN 12 OF BOX OR OUTLET AND SHALL NOT SAG. INSTALL CABLES IN A MANNER THAT PREVENTS OVERHEATING. CABLES SHALL BE FASTENED DIRECTLY TO THE STRUCTURE USING FACTORY CLAMPS/CLIPS SPECIFICALLY DESIGNED FOR THE RESPECTIVE CABLE (CADDY OR

c) ONLY WHERE INSTALLED FOR NORMAL UTILITY CIRCUITS; ALL WIRING FOR EMERGENCY SYSTEM FEEDERS AND RECEPTACLE BRANCH CIRCUITS SHALL BE IN CONDUIT (EMT), NO EXCEPTIONS.

11. COMMUNICATION TECHNOLOGY SYSTEMS

GENERAL

VOICE AND DATA CABLES SHALL BE INSTALLED IN "J-HOOK" STYLE PATHWAY WHERE INDICATED ON DRAWINGS. ALL OTHER WIRING/CABLES OF VOICE/DATA SYSTEMS AND ALL OTHER SYSTEMS SHALL BE INSTALLED IN CONDUIT, 3/4" MINIMUM. VERIFY ROUTE FOR "J-HOOK" WORK ABOVE CEILING IN FIELD IN ADVANCE WITH OWNER.

PROVIDE OUTLET BOXES AND CONDUIT STUBS FOR SYSTEMS AS INDICATED ON DRAWINGS. CONDUIT STUBS SHALL BE TURNED OUT IN JOIST SPACE AND, WHERE LOCATED IN AREAS WITH DRYWALL CEILINGS, SHALL BE EXTENDED TO THE NEAREST AREA WITH NO CEILING OR WITH ACOUSTICAL TILE CEILING, PROVIDE CONDUIT, BRIDLE RINGS AND RACEWAYS AS REQUIRED. ALL CONDUITS SHALL BE PROVIDED WITH SWEEP "L" 90'S AND INSULATED THROAT FITTINGS (OR BUSHINGS).

TYPICAL OUTLETS SHALL CONSIST OF A FLUSH WALL MOUNTED 4" SQUARE X 2-1/8" DEEP BOX WITH A DOUBLE GANG PLASTER RING. MAXIMUM CONDUIT FILL FOR NEW WORK SHALL BE 40%, BASED ON MANUFACTURE'S PUBLISHED DATA OF CABLE OUTSIDE

CABLE, TERMINATIONS, JACKS, LABELING, HARDWARE, SHALL BE PROVIDED BY A CERTIFIED COMMUNICATION TECHNOLOGY CONTRACTOR. CABLING SYSTEM SHALL BE PROVIDED AS REQUIRED FOR A TURNKEY, COMPLETE WORKING SYSTEMS.

DETERMINE EXACT LOCATIONS OF COMMUNICATION TECHNOLOGY EQUIPMENT, EQUIPMENT OUTLETS, ETC. IN FIELD. USE CAUTION NOT TO EXCEED THE ALLOWED BENDING RADIUS FOR RESPECTIVE CABLES AND NOT TO COMPROMISE THE INTEGRITY OF THE CABLES DURING INSTALLATION BY PULLING TIE-WRAPS TOO TIGHTLY, DAMAGING CABLES, ETC. RACEWAY/CABLING BENDING RADII SHALL BE INIMUM AS DIRECTED BY CABLE MANUFACTURER. USE PULLING COMPOUND OR LUBRICANT, WHERE NECESSARY; COMPOUND MUS NOT DETERIORATE CONDUCTOR OR INSULATION. NEATLY DRESS ALL CABLE WORK. WORK SHALL BE INSTALLED IN A MANNER WHICH RESULTS IN MAINTAINING A MINIMUM DISTANCE OF 24 INCHES FROM FEEDER/BRANCH CIRCUIT RACEWAYS AND FROM ANY BALLASTED

PROVIDE COLOR CODED JACKETS TO IDENTIFY RUNS OF DIFFERENT SYSTEMS. NEATLY ROUTE CABLES PARALLEL AND PERPENDICULAR TO BUILDING ARCHITECTURAL LINES. GROUP CABLES BY SYSTEM TYPE WHEREVER POSSIBLE. VERIFY EXACT LOCATIONS OF TELEPHONE

REVIEW ALL TERMINATION AND LABELING REQUIREMENTS WITH OWNER IN ADVANCE. ALL CABLE SHALL BE PROVIDED WITH PERMANENT ADHESIVE LABELING IDENTIFICATION BY THIS CONTRACTOR. PROVIDE TRANSPARENT ADHESIVE COVERINGS OVER EACH LABEL, WRAPPED ARQUIND THE LABELS AT LEAST TWO TIMES. THE LONG AXIS OF THE LABELS SHALL INSTALLED BE PARALLEL TO THE LONG AXIS OF THE RESPECTIVE CABLE ASSEMBLIES. LABELS SHALL BE APPROXIMATELY 1-1/2" LONG BY 3/8" HIGH.

INSTALL POWER CABLES IN A MANNER WHICH PREVENTS OVER-HEATING. OTHERWISE, WHEREVER POSSIBLE, BUNDLE CABLES OF THE SAME SYSTEM TOGETHER. ALSO PROVIDE COLOR CODED JACKETS, OR OTHER APPROVED LABELLING/IDENTIFICATION METHOD, TO

ALL CABLES WHICH ARE NOT ROUTED IN CONDUIT SHALL BE NEATLY BUNDLED. SECURED AT FOUR FOOT INTERVALS AND IDENTIFIED AT TEN FOOT INTERVALS. WHEREVER POSSIBLE, BUNDLE CABLES OF THE SAME SYSTEM TOGETHER. PROVIDE ADDITIONAL WALL OUTLET BOXES AND ADDITIONAL WHIPS AS/IF REQUIRED AT SYSTEMS FURNITURE TO ACHIEVE SAME.

CABLE DISTRIBUTION BRIDLE RINGS SHALL BE EQUAL TO CADDY #4BRT64 OR MONO-SYSTEMS INC. "THE HOOK" (MINIMUM 4" DIAMETER OR 4" SQUARE USABLE INTERNAL AREA) CONSTRUCTED OF ALUMINUM OR CORROSION RESISTANT STEEL WITH ROLLED EDGES OR EQUIVALENT TO PREVENT DAMAGE TO CABLE JACKETS AND INSULATION. PROVIDE SPLITS OR OPENINGS SO THAT CABLES CAN BE LAID IN THE RINGS RATHER THAN THREADED THROUGH. PROVIDE MAXIMUM 30% FILL (IN CROSS SECTION). BASED ON OUTSIDE DIAMETER OF CABLES. ACCORDINGLY, PROVIDE MULTIPLE SETS OF RINGS ALONG ANY ROUTES AS/IF REQUIRED.

PROVIDE RINGS AT FOUR FOOT INTERVALS AND AT ALL OFFSETS. ROUTE RINGS THROUGH CORRIDORS AND SIMILAR OPEN AREAS WHEREVER POSSIBLE TO MINIMIZE WALL PENETRATIONS. SECURELY ANCHOR (MECHANICAL - NOT ADHESIVE) ALL RINGS DIRECTLY TO STRUCTURAL COMPONENTS OF THE BUILDING. RINGS SHALL NOT BE ANCHORED TO DUCTWORK, CONDUIT, PIPING, FIXTURES, EQUIPMENT, CEILING SUPPORTS, ETC. ALL RINGS SHALL BE FULLY AND READILY ACCESSIBLE AFTER INSTALLATION. NEATLY ROUTE BRIDLE RING PATHS PARALLEL AND PERPENDICULAR TO BUILDING ARCHITECTURAL LINES AND AT A CONSISTENT ELEVATION WHEREVER

OFFSETS TO A MINIMUM. INSTALL BRIDLE RINGS IN A UNIFORM PLANE/ELEVATION WHEREVER POSSIBLE. KEEPING VERTICAL OFFSETS AN ABSOLUTE MINIMUM. PRIOR TO INSTALLATION, SUBMIT SCALED COORDINATION DRAWINGS SHOWING ALL PROPOSED ROUTING AND RING LOCATIONS FOR REVIEW BY OWNER. KEEP OFFSETS TO AN ABSOLUTE MINIMUM. BRIDLE RING PATHS SHALL BE ROUTED SO THAT A MINIMUM OF 24" EXISTS BETWEEN ANY CABLES AND ANY EMI SOURCE SUCH AS BALLASTS, MOTORS, POWER WIRING, ETC.

ROUTE ALL BRIDLE RING PATHS AND CABLES PERPENDICULAR AND PARALLEL TO THE BUILDING ARCHITECTURAL LINES, KEEPING

OUTLET. JUNCTION AND SWITCHBOXES

GANG TYPE OUTLET BOXES SHALL NOT BE USED. THE OUTLET BOX LOCATIONS INDICATED ON DRAWINGS SHALL BE CONSIDERED APPROXIMATE, AND THEREFORE, IT SHALL BE INCUMBENT UPON THIS CONTRACTOR TO STUDY THE GENERAL CONSTRUCTION WITH RELATION TO SPACES AND EQUIPMENT SURROUNDING EACH OUTLET. ALL OUTLET, SWITCH AND JUNCTION BOXES SHALL BE MADE OF CODE GALVANIZED STEEL COMPLETE WITH RINGS AND SCREW COVER PLATES AND LOCATED WHERE SHOWN AND NOTED ON DRAWINGS. WHERE CONDUIT IS CONCEALED, BOXES SHALL NOT BE LESS THAN 4" SQUARE X 1-1/2" DEEP. ALL BOXES SHALL BE EQUIPPED WITH PROPER COVERS TO BRING FLUSH WITH FINISHED WALL SURFACE.

WHERE OUTLET BOXES OCCUR IN BLOCK, CINDER, OR CONCRETE BLOCK, FACING TILE OR OTHER MATERIAL WHERE SUCH MATERIALS FORM THE FINISHED WALL SURFACE, THE OPENING FOR THE BOX SHALL BE CUT NEATLY AND OF THE SIZE THAT THE COVER PLATE WILL COVER ALL PARTS OF THE OPENING. CONDUIT SHALL BE USED ON EXPOSED RACEWAYS. IN GENERAL, JUNCTION BOXES SHALL BE FURNISHED AND REQUIRED BY THE CANADA ELECTRIC CODE, OF THE PROPER SIZES, AND SHALL BE CONSTRUCTED OF #12 GAUGE STEEL WITH REMOVABLE FRONT FASTENED ON WITH COUNTER SUNK HEAD SCREWS OR OTHER APPROVED MEANS. FOR SPECIAL APPLICATION, JUNCTION BOXES SHALL BE NOTED, DETAILED AND/OR SIZED ON THE DRAWINGS OR IN THE FIELD AS REQUIRED.

WHERE DRYWALL CEILINGS ARE USED, THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL JUNCTION BOXES ABOVE THE CEILING IN INACCESSIBLE LOCATIONS. FIELD COORDINATE WITH THE CONSTRUCTION MANAGER PRIOR TO ROUGH—IN TO AVOID ANY CONFLICTS. JUNCTION BOXES ABOVE <u>LAY-IN</u> CEILINGS ARE ACCEPTABLE.

13. HEIGHT OF BOXES

PRIOR TO ROUGH-IN, VERIFY ALL BOX/DEVICE MOUNTING HEIGHTS AND LOCATIONS IN FIELD WITH OWNER'S REPRESENTATIVE RELATIVE TO EQUIPMENT BEING SERVED AND RELATIVE TO EXISTING CONDITIONS WHERE APPLICABLE. IN GENERAL, WHERE NOT LOCATED AT COUNTER AREAS, THE HEIGHT OF BOXES FROM FINISHED FLOOR TO CENTER OF BOXES SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON PLANS:

RECEPTACLES TELEPHONE OUTLETS (WALL PHONE) 4'0" TELEPHONE OUTLETS (DESK PHONE) FIRE ALARM MANUAL PULL STATIONS DATA CABLE OUTLETS FIRE ALARM A/V ALARMS AS DIRECTED IN FIELD. DEVICES AT SPECIAL HEIGHTS

FURNISH AND INSTALL ALL NECESSARY CABLE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS OR SPECIFIED HEREINAFTER. ALL WIRE SHALL BE COPPER. ALL WIRING SHALL BE NEW. NO WIRE SMALLER THAN #12 AWG SHALL BE INSTALLED UNLESS SPECIFICALLY DESIGNATED. USE OF #14 COLOR CODED WIRE WILL BE ALLOWED FOR CONTROL CIRCUITS ONLY. ALL WIRING SHALL BE IN CONDUIT UNLESS SPECIFICALLY INDICATED OTHERWISE HEREIN. ALL CONDUCTORS SHALL BE COPPER. PROVIDE STRANDED CONDUCTORS FOR ALL SIZES UNLESS INDICATED OTHERWISE.

PROVIDE THHN/THWN INSULATION FOR ALL CONDUCTORS SIZE 500 MCM (KCMIL) AND LARGER, AND NO. 8 AWG AND SMALLER, FOR ALL OTHER SIZES PROVIDE THW OR THHN/THWN INSULATION AS APPROPRIATE FOR THE LOCATIONS WHERE INSTALLED. PROVIDE COLOR CODED INSULATION/JACKET FOR PHASE IDENTIFICATION. ALL WIRES SHALL BE RATED AT 600 VOLTS. PROVIDE TYPE XHHW-2 INSULATION FOR ALL WIRING SUBJECT TO MOISTURE, FOR ALL WIRING BELOW GRADE AND FOR ALL WIRING

KEEP CONDUCTOR SPLICES TO MINIMUM. PULL CONDUCTORS SIMULTANEOUSLY WHERE MORE THAN ONE IS BEING INSTALLED IN SAME RACEWAY. USE UL LISTED PULLING COMPOUND OR LUBRICANT, WHERE NECESSARY. INSTALL SPLICE AND TAP CONNECTORS WHICH POSSESS FOLIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATING THAN CONDUCTORS BEING SPLICED. LISE SPLICE AND TAP CONNECTORS WHICH ARE COMPATIBLE WITH CONDUCTOR MATERIAL. INCREASE WIRE SIZES PER CEC TO OFFSET VOLTAGE DROP AS/IF REQUIRED.

DEVICES AND COVERS SHALL BE GREY EXCEPT WHERE MOUNTED ON WHITE SLATWALL, THEN WHITE UNLESS OTHERWISE SPECIFIED II CONTRACT DOCUMENTS. PECIFICATION GRADE RECEPTACLES:

DUPLEX 120V RECEPTACLES SHALL BE EQUAL TO LEVITON #5362 SERIES (NEMA 5-20R).

CONTROLLED DUPLEX 120V RECEPTACLES SHALL BE EQUAL TO LEVITON #5362-S2 SERIES (NEMA 5-20R)

GROUND FAULT CIRCUIT INTERRUPTER DUPLEX 120V RECEPTACLES SHALL BE EQUAL TO LEVITON #8899 SERIES (NEMA 5-20R). DUPLEX ISOLATED GROUND 120V RECEPTACLES SHALL BE EQUAL TO LEVITON #5362-IG. SINGLE ISOLATED GROUND 120V RECEPTACLES SHALL BE EQUAL TO LEVITON #5361-IG (NEMA 5-20R).

SPECIAL PURPOSE RECEPTACLES SHALL BE OF THE SIZE, TYPE AND MANUFACTURER AS INDICATED ON THE PLANS OR AS DETERMINED IN FIELD.

SINGLE POLE 120/277 SWITCHES SHALL BE EQUAL TO LEVITON #1221-2 SERIES. PILOT LIGHT SWITCHES SHALL BE EQUAL TO

DOUBLE-POLE 120/277 SWITCHES SHALL BE EQUAL TO LEVITON #1222-2 SERIES; PILOT LIGHT SWITCHES SHALL BE EQUAL TO

3-WAY 120/277 SWITCHES SHALL BE EQUAL TO LEVITON #1223-2 SERIES; PILOT LIGHT SWITCHES SHALL BE EQUAL TO 1223-PL OCCUPANCY SENSOR DEVICES SHALL BE AS SPECIFIED IN CONTRACT DOCUMENTS.

PROVIDE WALLPLATES WITH ENGRAVED LEGENDS WHERE INDICATED ON DRAWINGS AND/OR WHERE REQUIRED PER ELECTRICAL IDENTIFICATION SECTION. ALL DEVICE WALLPLATES SHALL BE STANDARD SIZE; "MIDWAY", "OVERSIZED" ("JUMBO") OR "EXTRA DEEP" WALLPLATES SHALL NOT BE ACCEPTABLE. CONSTRUCT WITH METAL SCREWS FOR SECURING PLATES TO DEVICES; SCREW HEADS COLORED TO MATCH FINISH OF PLATES. WALLPLATES COLOR TO MATCH DEVICE, WITH BEVELED EDGES, EQUAL TO LEVITON COMMERCIAL SPECIFICATION GRADE NYLON UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.

SUPPORTS, INSERTS, CUTTING AND PATCHING

THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING REQUIRED FOR THE ADMISSION OF HIS WORK. ANY DAMAGE DONE BY THIS CONTRACTOR TO THE BUILDING DURING THE PROGRESS OF HIS WORK SHALL BE MADE GOOD AT HIS OWN EXPENSE. ALL PATCHING SHALL BE DONE BY A SKILLED CRAFTSMAN IN THAT RESPECTIVE TRADE. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO SUPERVISE THE INSTALLATION OF, AND PAY FOR ALL ADDITIONAL MEMBERS, WOOD OR METAL AND LABOR WHICH MAY BE REQUIRED TO SUPPORT ANY TYPE OF PERMANENT OR TEMPORARY ELECTRICAL APPARATUS EMPLOYED IN THE EXECUTION OF THIS CONTRACTOR'S

SEAL ALL NEW FLOOR, CEILING, WALL, SLAB, ETC. PENETRATIONS TO MATCH OR EXCEED EXISTING/NEW ASSEMBLY FIRE RATINGS. PROVIDE SLEEVE SEALS FOR ALL SLEEVES; PROVIDE SLEEVES FOR ALL PENETRATIONS. VERIFY REQUIREMENTS IN FIELD. ALL PENETRATIONS OF FIRE—RATED OR SMOKE—RATED WALLS, FLOORS, CEILINGS, ETC. SHALL BE SEALED IMMEDIATELY AFTER RACEWAYS ARE INSTALLED. ALL NEW ELECTRICALLY RELATED WORK SHALL BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURAL MEMBERS. NEW ELECTRICALLY RELATED WORK SHALL NOT BE SUPPORTED FROM DUCTWORK, DUCTWORK HANGERS, CEILING SUPPORTS, EXISTING CONDUIT SUPPORTS, ETC. ALL CONDUITS (AND CABLE ASSEMBLIES, WHERE APPLICABLE) SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURAL MEMBERS. ANY AND ALL NONCOMPLIANT WORK INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE REMOVED AND REINSTALLED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND THE ENGINEER, AT THE EXPENSE OF THE ELECTRICAL

LIGHTING FIXTURES

WALL PLATES:

ALL SURFACE MOUNTED BALLASTED FIXTURES SHALL BE MOUNTED WITH AIR SPACES BETWEEN FIXTURE AND SURFACE PER LATEST EDITION OF CFPA/CEC. ALL RECESSED FIXTURES SHALL BE EQUIPPED WITH NECESSARY PLASTER FRAMES AND SURFACE TRIM. ALL RECESSED FLUORESCENT FIXTURES SHALL BE EQUIPPED AND SUITABLY CONSTRUCTED TO OPERATE WITH "P" RATED BALLASTS ALL RECESS MOUNTED INCANDESCENT AND H.I.D. FIXTURES SHALL HAVE UL APPROVED THERMAL PROTECTION PER LATEST EDITION OF CFPA/CEC. ALL JUNCTION BOXES AND SERVICEABLE COMPONENTS (BALLASTS, THERMAL PROTECTION DEVICES, FUSES, ETC.) FOR RECESSED FIXTURES SHALL BE READILY ACCESSIBLE FOR SERVICE OR REPLACEMENT FROM BELOW THE CEILING, WITHOUT REMOVING ANY CEILING COMPONENTS (OTHER THAN TILES).

WHERE PLASTER FRAMES ARE INFERRED FOR LIGHTING FIXTURES (EITHER BY NARRATIVE OR BY CATALOG NUMBER OR BY APPLICATION) THE ACTUAL FUNCTION SHALL BE TAKEN TO MEAN FOR MOUNTING WITHIN GYPSUM BOARD OR SIMILAR TYPE CEILING SYSTEM (I.E. NOT WITHIN WET PLASTER CEILING SYSTEM).

ALL LIGHTING FIXTURES UTILIZED FOR EMERGENCY EGRESS LIGHTING SHALL BE CONNECTED AHEAD OF SWITCHING. ALL BALLASTS OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND CATALOG NUMBER. ALL LAMPS OF THE SAME TYPE SHALL BE OF THE

PROVIDE LOW ENERGY SOLID STATE RAPID START ELECTRONIC FLUORESCENT LAMP BALLASTS (LESS THAN OR EQUAL TO 20% THD) SPECIFICALLY DESIGNED FOR OPERATING LAMP TYPES INDICATED. FLUORESCENT BALLASTS SHALL BE MOTOROLA OR ADVANCE EQUÁL. ALL FIXTURES SHOWN ON DRAWINGS WITH MULTI-LEVEL SWITCHING SHALL BE PROVIDED WITH MULTIPLE BALLASTS TO ACCOMMODATE SAME. ALL OTHER FIXTURES MAY CONTAIN EITHER SINGLE BALLASTS OR MULTIPLE BALLASTS AS REQUIRED TO FULFILL REQUIRED FUNCTION AND AS REQUIRED TO COMPLY WITH CONSTRUCTION SCHEDULE.

INCANDESCENT LAMPS SHALL BE SYLVANIA OR PHILIPS, LONG LIFE TYPE (3000 HOURS). ALL INCANDESCENT LAMPS SHALL BE INSIDE FROSTED UNLESS SPECIFICALLY DIRECTED OTHERWISE. PROVIDE SOCKET ADAPTERS/EXTENDERS IF REQUIRED FOR ACCOMMODATING THE

FLUORESCENT LAMP COLOR TEMPERATURE SHALL BE 3500K (VERIFY).

COMPACT FLUORESCENT TWIN TUBE/DUAL TWIN TUBE LAMPS SHALL BE OSRAM OR PHILIPS, 82 CRI. MINIMUM 10.000 HOURS RATED LONG FLUORESCENT TWIN TUBE LAMPS SHALL BE OSRAM OR PHILIPS, 82 CRI, 3150 INITIAL LUMENS, MINIMUM 20,000 HOURS RATED. F32T8 FLUORESCENT LAMPS SHALL BE RAPID START. ENERGY SAVING TYPE MINIMUM 75 CRI. MINIMUM 2850 INITIAL LUMENS AND MINIMUM 20,000 HOURS RATED, LAMPS SHALL BE SYLVANIA, OSRAM OR PHILIPS, EQUAL TO SYLVANIA #F032/RS.

OF CEILING EITHER DISPLACING A TILE, OR UNIT ON CENTER OF TILE, OR CENTERED ON GRID LINES. PROVIDE FIXTURES AND/OR FIXTURE OUTLET BOXES WITH HANGERS TO PROPERLY SUPPORT FIXTURE WEIGHT. ALL LIGHTING FIXTURES

ALL SURFACE AND RECESSED CEILING FIXTURES INSTALLED ON GRID OR TILE CEILINGS SHALL BE INSTALLED TO AGREE WITH MODULE

INSTALLED IN OR ON SUSPENDED CEILING SYSTEMS SHALL BE ANCHORED DIRECTLY TO THE BUILDING STRUCTURAL SYSTEM ABOVE (ANCHORED PER CEC). SUCH ANCHORING SHALL BE INDEPENDENT OF THE CEILING SUPPORT SYSTEM. ALL FIXTURES SHALL BE NSTALLED PLUMB AND LEVEL. SUPPORT SURFACE MOUNTED FIXTURES GREATER THAN 2 FEET IN LENGTH AT A POINT IN ADDITION TO THE OUTLET BOX FIXTURE STUD.

REPLACE DEFECTIVE LAMPS FOR A PERIOD OF ONE YEAR FOLLOWING THE TIME OF SUBSTANTIAL COMPLETION. WHERE USED FOR TEMPORARY LIGHTING PRIOR TO TIME OF SUBSTANTIAL COMPLETION, REPLACE ALL INCANDESCENT LIGHTING FIXTURE LAMPS, AS WELL AS ANY LAMPS WHICH ARE DEFECTIVE, DAMAGED OR BURNED OUT. FOR ALL EXISTING FIXTURES WHICH ARE SCHEDULED FOR REUSE. REMOVE FROM EXISTING CEILINGS DURING DEMOLITION: PROTECT

DURING CONSTRUCTION; CLEAN, SERVICE (IF REQUIRED), RE-LAMP (WITH LAMPS TO MATCH BUILDING STANDARD OR PER THIS SECTION AS NOTED) AND REINSTALL AT LOCATIONS INDICATED. FOR ALL EXISTING FIXTURES WHICH ARE SCHEDULED TO BE REMOVED AND TURNED OVER TO OWNER. THE FIXTURES SHALL B

DISCONNECTED, CAREFULLY REMOVED AND TURNED OVER TO OWNER. TRANSFER SUCH FIXTURES TO STORAGE AREA AS DIRECTED IN

18. MECHANICAL EQUIPMENT

PROVIDE ALL CONDUIT AND OUTLET BOXES AS REQUIRED FOR ALL CONTROL WIRING AND THERMOSTATS. FURNISH AND INSTALL POWER WIRING AND MAKE LINE CONNECTIONS TO ALL HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT. ELECTRICAL CONTRACTOR SHALL EXAMINE THE APPROVED DRAWINGS OF ALL BRANCHES AND SHALL WIRE AND CONNECT ALL MOTORS, DISCONNECTS, CONTROL DEVICES AND OTHER ITEMS REQUIRING ELECTRICITY FOR OPERATION. THIS CONTRACTOR SHALL MAKE THE NECESSARY ELECTRICAL CONNECTIONS BETWEEN THE SPECIFIED EQUIPMENT AND THE JUNCTION BOX NEAR EQUIPMENT WITH FLEXIBLE METALLIC CONDUIT AND MATCHED CONNECTORS. NO FLEXIBLE CONDUIT SHALL BE EXPOSED IN FINISHED ROOMS. EACH MOTOR SHALL HAVE DISCONNECT SWITCH OR MANUAL STARTER INSTALLED BY THIS CONTRACTOR AHEAD OF MOTOR OR MOTOR MAGNETIC STARTER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL AND INTERLOCK WIRING AS SPECIFICALLY INDICATED ON THE DRAWINGS. ALL OTHER CONTROL WIRING REQUIRED FOR OPERATION OF THE SYSTEMS SHALL BE PROVIDED BY THE HEATING CONTRACTOR.

19. ELECTRICAL DISTRIBUTION EQUIPMENT

DISCONNECTS, STARTERS & FUSES:

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE EQUIPMENT OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING):

DISCONNECT SWITCHES SHALL BE EQUAL TO SQUARE D TYPE HD. ALL SAFETY SWITCHES/DISCONNECTS SHALL BE HEAVY DUTY SAFETY TYPE, QUICK MAKE AND QUICK BREAK AND EXTERNALLY OPERATED. UNLESS NOTED OTHERWISE ON DRAWINGS OR DIRECTED OTHERWISE IN FIELD, ALL DISCONNECT SWITCHES SHALL BE FUSED. UNLESS NOTED OTHERWISE ON DRAWINGS OR DIRECTED THERWISE IN FIELD, BRACE ALL DISCONNECT SWITCHES FOR 200,000 A.I.C. PROVIDE HEAVY-DUTY SWITCHES, WITH FUSES CLASSES AND CURRENT RATINGS INDICATED AND UL LISTED FOR USE AS SERVICE EQUIPMENT UNDER UL STANDARD 98 OR 869. SEE SECTION "FUSES" FOR SPECIFICATIONS. WHERE CURRENT LIMITING FUSES ARE INDICATED. PROVIDE SWITCHES WITH NON-INTERCHANGEABLE FEATURE SUITABLE ONLY FOR CURRENT LIMITING TYPE FUSES. INSTALL DISCONNECT SWITCHES WITHIN SIGHT OF CONTROLLER POSITION UNLESS OTHERWISE INDICATED.

ELECTRICAL CHARACTERISTICS INDICATED, WHICH COMPLY WITH MANUFACTURER'S STANDARD MATERIALS, DESIGN AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION, AND AS REQUIRED FOR COMPLETE INSTALLATIONS. ALL STARTERS SHALL BE EQUIPPED WITH PILOT LIGHTS. ALL STARTERS SHALL BE SIZED ACCORDING TO LOAD BEING SERVED OR AS NOTED ON DRAWINGS, WHICHEVER REQUIREMENT IS LARGER. MANUAL AND MAGNETIC STARTERS THERMAL OVERLOAD ELEMENTS SHALL BE RATED BETWEEN 115% AND 125% FULL LOAD CURRENT OR AS CALLED FOR UNDER CEC. INSTALL AND CONNECT CAPACITORS FURNISHED BY HVAC CONTRACTORS AHEAD OF OVERLOADS WHERE APPLICABLE.

EXCEPT AS OTHERWISE INDICATED. PROVIDE MOTOR STARTERS AND ANCILLARY COMPONENTS: OF TYPES, SIZES, RATINGS AND

PROVIDE SINGLE-PHASE AC FRACTIONAL HP MANUAL MOTOR STARTERS, OF SIZES AND RATINGS REQUIRED. EQUIP WITH MANUALLY OPERATED QUICK-MAKE. QUICK-BREAK TOGGLE MECHANISMS: AND WITH ONE-PIECE MELTING ALLOY TYPE THERMAL UNITS. EQUIP WITH THERMAL OVERLOAD RELAY WITH FIELD ADJUSTMENT CAPABILITY OF PLUS OR MINUS 10% VARIATION OF NOMINAL OVERLOAD HEATER RATING, FOR PROTECTION OF FRACTIONAL HP MOTORS AS SHOWN ON DRAWINGS. STARTER SHALL BECOME INOPERATIVE WHEN THERMAL UNIT IS REMOVED. PROVIDE STARTERS WITH DOUBLE BREAK SILVER ALLOY CONTACTS, VISIBLE FROM BOTH SIDES OF STARTER; GREEN PILOT LIGHTS, AND SWITCH CAPABLE OF BEING PADLOCKED-OFF. MANUAL STARTERS SHALL BE EQUAL TO THE

MANUAL STARTER IN FINISHED AREAS:

FOLLOWING.

SQUARE D #2510 FLUSH MOUNTED, 2-POLE TOGGLE SWITCH TYPE WITH NEON PILOT AND NEMA 1 TYPE B ENCLOSURE"FOR FLUSH WALL INSTALLATION.

MANUAL STARTER FOR EXPOSED CONDUIT INSTALLATION:

SQUARE D #8536 SURFACE MOUNTED, 2-POLE TOGGLE SWITCH TYPE WITH NEON PILOT AND NEMA 1 TYPE FG-2P ENCLOSURE FOR SURFACE WALL INSTALLATION.

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE FUSES OF ONE OF THE FOLLOWING. ALL FUSES SHALL BE OF THE SAME MANUFACTURER: BUSSMAN, LITTELFUSE. EXCEPT AS OTHERWISE INDICATED, PROVIDE FUSES OF TYPES, SIZES, RATINGS, AND AVERAGE TIME-CURRENT AND PEAK LET-THROUGH CURRENT CHARACTERISTICS INDICATED, WHICH COMPLY WITH MANUFACTURER'S STANDARD DESIGN, MATERIALS, AND CONSTRUCTED IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION, AND WITH INDUSTRY STANDARDS AND CONFIGURATIONS, FUSES 1 AMPERE IHROUGH 600 AMPERES SHALL BE REJECTION TYPE. FUSES 601 AMPERES THROUGH 6000 AMPERES SHALL BE HI—CAP, BOLT TYPE PROVIDE FACTORY FUSE IDENTIFICATION LABELS, INSTALLED ON THE INSIDE OF THE DOOR OF EACH SWITCH INDICATING TYPE AND SIZE OF FUSES INSTALLED. FOR TYPES AND RATINGS REQUIRED, FURNISH ADDITIONAL FUSES, AMOUNTING TO 10 PERCENT OF FUSES

EACH FUSE SHALL BE CLEARLY FACTORY MARKED WITH CLASSIFICATION, CHARACTERISTICS, AMPERE RATINGS, VOLTAGE RATINGS, ETC. FUSES SHALL NOT BE SHIPPED INSTALLED IN SWITCHES NOR SHALL THEY BE INSTALLED IN THE EQUIPMENT UNTIL THE EQUIPMENT UNTIL THE EQUIPMENT IS READY TO BE ENERGIZED. ALL FUSES SHALL BE OF THE SAME MANUFACTURER.

PRIOR TO INSTALLING FUSES FOR PROTECTION OF SPECIFIC EQUIPMENT, MOTORS, ETC., VERIFY RECOMMENDED FUSE SIZE/TYPE IN FIFI D FROM RESPECTIVE FOUIPMENT MANUFACTURER. IF A CONFLICT IN FUSE SIZE/TYPE RESULTS BETWEEN MANUFACTURER'S RECOMMENDATIONS AND ABOVE SPECIFICATIONS, CONTACT ENGINEER. PROVIDE ALL REQUIRED FUSES UNDER BASE BID. INSTALL FUSES

CONTACTORS & TIMECLOCKS:

LIGHTING CONTACTORS SHALL BE EQUAL TO SQUARE D "TYPE L" SERIES FOR NON-MOTOR LOADS (I.E. FOR TUNGSTEN & BALLAST LIGHTING AND RESISTANCE HEATING LOADS). ELECTRICALLY OPERATED, ELECTRICALLY HELD, IN NEMA 1 ENCLOSURE, WITH 120V COIL, THROUGH 12-POLE VERSIONS AND CHARACTERISTICS AS INDICATED ON DRAWINGS OR AS REQUIRED. DRY CONTACTS SHALL BE RATED AT 30A, 208V OR 600V AS REQUIRED, VERIFY ALL COIL VOLTAGE RATINGS IN FIELD

BASIC MULTI-PURPOSE TIME CLOCK SHALL BE EQUAL TO INTERMATIC #T103 24HR MECHANICAL DPST CONTROL OF LOADS UP TO

40A WITH 1 TO 12 ON/OFF OPERATIONS EACH DAY, FOR ENERGY CODE COMPLIANCE OR PER LANDLORD CRITERIA. USE TORK DTS400B TIME CLOCK THAT SHALL BE PROGRAMMABLE 365 DAY, 24 HOUR WITH OVERRIDE CONTROLS. UNIT SHALL BE 4 CHANNEL PROVIDE ALL REQUIRED EXTERNAL CONTACTORS, RELAYS, ETC. TO RENDER THE CONTROL SYSTEMS FULLY OPERATIONAL. VERIFY ZONE CONTROL REQUIREMENTS IN FIELD PRIOR TO ROUGH—IN. PROVIDE BATTERY BACKUP EXTENDED POWER CARRYOVER. CUSTOM PROGRAMMING SHALL BE CONFIGURED AS SPECIFIED BELOW.

OPERATING HOURS SHALL BE SET AS FOLLOWS 1. VERIFY WITH LANDLORD AND OWNER FOR EXACT SETTINGS

OF PANELBOARD AND ENCLOSURE): SQUARE D COMPANY

SUPPLIED, BUT NOT LESS THAN ONE SET OF 3 OF EACH KIND

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PANELBOARD PRODUCTS OF THE FOLLOWING (FOR EACH TYPE AND RATING

PANELS SHALL BE DEAD FRONT. SAFETY TYPE, FURNISHED WITH BRANCH CIRCUIT PROTECTING DEVICES, EQUIPMENT GROUNDING BOX MAIN BUS AND CABLE LUGS FACTORY ASSEMBLED, WITH ALL COMPONENTS IN PLACE, READY FOR INSTALLATION. CABINET SIZES ARE BASED UPON A 20" WIDE BY 6" DEEP PANEL UNLESS OTHERWISE NOTED. PANELBOARDS SHALL BE EQUIPPED WITH FLUSH TYPE LOCK AND CATCH. ALL LOCKS SHALL BE KEYED ALIKE, AND TWO KEYS ARE TO BE SUPPLIED WITH EACH LOCK.

PANELBOARDS SHALL BEAR UL LABELS FOR THEIR SPECIFIC APPLICATIONS. PANELBOARDS SHALL BE SUITABLE FOR SERVICE VOLTAGE WITH NUMBER OF BRANCH CIRCUITS OF CAPACITY SCHEDULED. UNLESS OTHERWISE INDICATED, PANELBOARDS AND SECTIONS THEREOF F ANY, SHALL HAVE MAIN LUGS ONLY OF CAPACITY EQUAL TO, OR GREATER THAN, THE RATING OR SETTING OF THE OVER THE CURRENT PROTECTIVE DEVICE NEXT BACK ON THE LINE. ALL CIRCUIT BREAKER PANELBOARD BUS ASSEMBLIES SHALL BE OF THE DISTRIBUTED (SEQUENCE) BUSSING TYPE THROUGHOUT, SO THAT ANY 2 ADJACENT SINGLE POLE BREAKERS AND/OR SPACES SHALL BE REPLACEABLE BY A 2 POLE INTERNAL COMMON TRIP BREAKER, AND ANY 3 ADJACENT SINGLE POLE BREAKERS AND/OR SPACES SHALL BE REPLACEABLE BY A 3 POLE INTERNAL COMMON TRIP BREAKER. 15 AMP THROUGH 70 AMP INCLUSIVE, WITHOUT DISTURBING ANY OTHER BREAKER. ALL PANELBOARDS SHALL BE UL LISTED AND LABÉLED FOR USE AS SERVICE ENTRANCE ÉQUIPMENT WHERE BEING USED AS SUCH.

DISTRIBUTION PANELS SHALL BE SQUARE D I-LINE.

374/600 VOLT HIGH VOLTAGE PANELS SHALL BE SQUARE D NF.

208Y/120V LIGHTING AND APPLIANCE PANELBOARDS SHALL BE EQUAL TO SQUARE D NOOD WITH BOLT-ON BRANCH BREAKERS. ALL BUSSING SHALL BE COPPER. CURRENT CARRYING CONTACT SURFACES SHALL BE SILVER OR TIN PLATED. MAIN BUSES AND NECTORS SHALL BE HARD DRAWN COPPER OF 98% CONDUCTIVITY, WITH CURRENT CARRYING CAPACITY TO MAINTAIN ESTABLISHED RISE TESTS AS DEFINED IN UL STANDARD UL 67.

ALL BRANCH CIRCUIT BREAKERS SHALL BE FULL AMBIENT COMPENSATED THERMAL MAGNETIC MOLDED CASE WITH QUICK-MAKE AND QUICK-BREAK ACTION AND POSITIVE HANDLE TRIP INDICATION, BOTH ON MANUAL AND ON AUTOMATIC OPERATION. BREAKERS SHALL BE OF THE OVER-THE-CENTER TOGGLE OPERATING TYPE WITH THE HANDLE GOING TO A POSITION BETWEEN "ON" AND "OFF" TO

ALL CIRCUIT BREAKERS SHALL BE FULL SIZE. "TANDEM" OR "SPLIT" BREAKERS SHALL NOT BE PERMITTED. ALL MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP WITH ALL LOAD SIDE BOX LUGS OF ONE BREAKER IN THE SAME GUTTER. ALL CIRCUIT BREAKERS SHALL HAVE SEALED CASES TO PREVENT TAMPERING. ALL 15 AND 20 AMPERE BRANCH CIRCUIT BREAKERS SHALL BE UL LISTED AS SWD (SWITCHING DUTY). ALL 15-70 AMPERE BRANCH CIRCUIT BREAKERS SHALL BE HACR TYPE. ALL GFI CIRCUIT BREAKERS SHALL BE UL CLASS A WITH MAXIMUM THRESHOLD OF 5 MA. ALL BRANCH CIRCUIT BREAKERS SERVING ALL BALLASTED (FLUORESCENT/HID) LIGHTING LOADS SHALL BE HID RATED. PROVIDE 20 (+/-) NON-PADLOCK TYPE BREAKER LOCK-ON DEVICES AND INSTALL ON BRANCH BREAKERS AS DIRECTED IN FIELD (NIGHT LIGHTS, COMPUTERS, SECURITY, ETC.). PROVIDE DETAILED YPEWRITTEN SCHEDULES FOR ALL PANELBOARDS. CIRCUIT BREAKERS SHALL BE FURNISHED AS SCHEDULED ON THE DRAWINGS OR AS OTHERWISE REQUIRED BASED ON FIELD DETERMINATIONS.

PROVIDE ALL ELECTRICAL DISTRIBUTION RELATED EQUIPMENT WITH APPROPRIATELY BRACED BUSSING AND PROPERLY RATED BREAKERS, FUSES, ETC. FOR THE AVAILABLE FAULT CURRENTS. IN EXISTING BUILDINGS WHERE FAULT CURRENT VALUES ARE NOT INDICATED ON DRAWINGS, COORDINATE WITH EXISTING "UPSTREAM"

DISTRIBUTION EQUIPMENT PROVIDE EQUIPMENT AIC RATINGS TO MEET OR EXCEED SAME. FILL OUT PANELBOARD'S CIRCUIT DIRECTORY CARD UPON COMPLETION OF INSTALLATION WORK. DIRECTORIES SHALL BE NEATLY TYPEWRITTEN. ALL PANELBOARD DIRECTORIES SHALL INCLUDE THE ACTUAL ROOM NAMES/NUMBERS THAT ARE SELECTED FOR INTERIOR SIGNAGE/DESIGNATION.

POWER DISTRIBUTION TRANSFORMERS SHALL BE SQUARE D DRY TYPE WITH COPPER WINDINGS. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD (WITH CHAMFERED EDGES) FOR ALL FLOOR MOUNTED TRANSFORMERS. INSTALL UNITS ON VIBRATION MOUNTS; COMPLY WITH MANUFACTURER'S INDICATED INSTALLATION METHOD.

DRY-TYPE TRANSFORMERS SHALL BE OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATING AS CALLED FOR ON THE DRAWINGS AND WITH 150' CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS. SOUND LEVEL SHALL BE LOW INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PR AND SECONDARY, LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OF VIOLATIONS WITH OTHER

20. <u>Fire Alarm Work (if required)</u>

IT SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM SYSTEMS CONTRACTOR TO DESIGN AND INSTALL A COMPLETE SYSTEM AS REQUIRED. THE FIRE ALARM SYSTEMS CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS FROM THE CANADA FIRE MARSHALL'S OFFICE AND LOCAL AUTHORITY HAVING JURISDICTION FOR APPROVAL.

A COMPLETE SET OF PLAN DRAWINGS. FIRE ALARM SYSTEM DEVICES (SMOKE DETECTORS, PULL STATIONS, BELLS, STROBES, ETC.) SHALL BE OF THE SAME MANUFACTURER AS, AND COMPATIBLE WITH, THE EXISTING BUILDING FIRE ALARM SYSTEM. PROVIDE AUXILIARY CONTACTS IF REQUIRED FOR SPECIAL APPLICATIONS, ALL STROBE ALARMS SHALL BE ADA COMPLIANT, MINIMUM 75CD PER ADA.

FOR THE PURPOSE OF TRADE COORDINATION, THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE TO THE ELECTRICAL CONTRACTOR

ALL NEW WIRING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND IN CONDUIT (3/4" MINIMUM). FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN A RACEWAY SYSTEM SEPARATE FROM SECURITY SUB-SYSTEM WIRING WHERE/IF APPLICABLE. THE INSTALLATION SHALL INCLUDE A COMPLETE SYSTEM TEST OF THE EQUIPMENT BY THE LOCAL REPRESENTATIVE OF THE SYSTEM

INSTALLED. THIS TEST SHALL BE PERFORMED IN THE PRESENCE OF REPRESENTATIVES OF THE OWNER, ENGINEER, AND LOCAL FIRE

PROVIDE ALL REQUIRED MODIFICATIONS (CARDS, POWER SUPPLIES, HARDWARE, FIRMWARE, SOFTWARE, ETC.) TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED TO RENDER THE ENTIRE EXTENSION FULLY OPERABLE.

PROVIDE ALL REQUIRED 20A/120VAC POWER AS REQUIRED TO ENERGIZE ALL NEW FIRE ALARM RELATED COMPONENTS. THIS

SMOKE DETECTOR LOCATIONS SHALL NOT EXCEED THE RATED COVERAGE OF THE DETECTOR AND, IN GENERAL, SHALL BE NO MORE THAN 15 FEET FROM A WALL OR 30 FEET APART. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3 FEET FROM A SUPPLY AIR DIFFUSER. PROVIDE CONTACT BASES FOR ALL APPLICATIONS WHERE AUXILIARY CONTACTS ARE REQUIRED.

THE AUDIO/VISUAL AND VISUAL-ONLY ALARM INDICATING DEVICES SHALL BE RED ADA-COMPLIANT UNITS (WITH MINIMUM 75 CANDELA

ADA-COMPLIANT STROBES) WALL MOUNTED AT 6'8" AS SHOWN ON PLANS. STROBE UNITS SHALL BE SYNCHRONIZED WHEREVER

REQUIREMENT APPLIES WHETHER OR NOT SUCH POWER WORK IS SHOWN ON THE DRAWINGS. BRANCH CIRCUITS SERVING FIRE ALARM

REQUIRED BY ANY AUTHORITY HAVING JURISDICTION, INCLUDING ADAAG. ADDITIONALLY, WHERE REQUIRED BY LOCAL AUTHORITY, STROBES MUST MEET ANSI \$3.41 TEMPORAL CODE. THE WATERFLOW SWITCHES, TAMPER SWITCHES AND PRESSURE SWITCHES SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL WIRE AND PROVIDE THE RELATED MONITOR MODULES AS REQUIRED. PROVIDE ISOLATION MODULES AS REQUIRED TO ISOLATE WIRE TO WIRE SHORTS ON A DATA LOOP TO LIMIT THE NUMBER OF OTHER

THE AREA DISCONNECTED BY THE ISOLATION MODULE DUE TO WIRING FAULTS. PROVIDE MONITOR MODULES AS REQUIRED TO INTERFACE "NON-INTELLIGENT" DEVICES INTO THE SYSTEM AS SHOWN ON THE DRAWINGS (I.E. SPRINKLER FLOW SWITCHES, TAMPER SWITCHES, ETC.).

MODULES OR DETECTORS THAT ARE INCAPACITATED BY THE SHORT CIRCUIT FAULT AND/OR GROUNDS. ISOLATION MODULES SHALL BE

PART OF THE SMOKE DETECTOR BASE. THE ISOLATION MODULES SHALL PERMIT THE ENTIRE SYSTEM TO OPERATE INDEPENDENTLY OF

PROVIDE CONTROL MODULES FOR ALL AUXILIARY DEVICES INCLUDING ALL SUPERVISED CONTROL FUNCTIONS SUCH AS AIR HANDLER EXTERIOR/ROOF MOUNTED DUCT SMOKE DETECTORS SHALL BE IN A NEMA4X ENCLOSURE.

RELATED EQUIPMENT SHALL BE DEDICATED TO FIRE ALARM RELATED EQUIPMENT ONLY.

21. DUCT SMOKE DETECTOR PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIREMENT PROVIDE ALL REQUIRED 204/120VAC POWER AS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIRED TO ENERGIZE ALL FIRE ALARM RELATED COMPONENTS. THIS REQUIRED TO ENERGY. EQUIPMENT SHALL BE DEDICATED TO FIRE ALARM RELATED EQUIPMENT ONLY. REFER TO MECHANICAL DRAWINGS FOR REQUIREMENTS.

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